# Water Resources Data Missouri Water Year 2002

By H.S. Hauck and C.D. Nagel

Water-Data Report MO-02-1





# **CALENDAR FOR WATER YEAR 2002**

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Water-Data Report MO-02-1





# U.S. DEPARTMENT OF THE INTERIOR

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U.S. GEOLOGICAL SURVEY

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#### PREFACE

This hydrologic-data report for Missouri is one of a series of annual reports that document hydrologic data collected from the U.S. Geological Survey's surface- and ground-water data collection networks in each State, Puerto Rico, and the Trust Territories. These records of surface water, surface-water quality, and ground-water levels provide the hydrologic information needed by local, State, and Federal agencies and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for ensuring that the information is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Missouri and with other agencies under the general supervision of Loyd A. Waite, Hydrologic Surveillance Section Chief and Michael E. Slifer, District Chief, Missouri.

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Spring River near Carthage (d)	504
Spring River near Waco (d)	506
Center Creek near Smithfield (c,m)	507
Turkey Creek near Joplin (c,m)	512
Shoal Creek at Pioneer (d)	515
Shoal Creek above Joplin (d) 07187000	516
Big Sugar Creek near Powell (d) 07188653	517
Indian Creek near Lanagan (d)	518
Patterson Creek near Tiff City (c,m) 07188950	519
Elk River near Tiff City (d,c,m)	521
Buffalo Creek at Tiff City (d) 07189100	527

# DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Missouri have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Discontinued project stations with less than three years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters after station name designate type of data collected: (d) discharge and (e) elevation (stage only)]

Station name	Type of record	Station number	Drainage area (mi <sup>2</sup> )	Period of record
Middle Fabius River near Baring	(d)	05497500	185	1930-196
North River at Bethel	(d)	05500500	58.0	1930-197
Oak Dale Branch near Emden	(d)	05503000	2.64	1955-197
North Fork Salt River near Hunnewell	(d)	05503500	626	1931-194
Notes for bare kiver near namewers	(α)	03303300	020	1979-198
Youngs Creek near Mexico	(d)	05506000	67.4	1930-198
Middle Fork Salt River at Duncan's Bridge	(d)	05506190	200	1980-198
Elk Fork Salt River near Paris	(d)	05507000	262	1930-195
	(/			1980-198
Salt River near Monroe City	(d)	05507500	2,230	1939-198
Calumet Creek near Clarksville	(d)	05509700	15.7	1965-197
Tarkio River at Fairfax	(d)	06813000	508	1922-199
larkio kiver at Fairlax	(α)	06813000	506	1922-199
Mill Creek at Oregon	(d)	06816000	4.90	1950-197
Nodaway River near Burlington Junction	(d)	06817500	1,240	1922-198
Platte River at Ravenwood	(d)	06818900	486	1921-192
				1924-192
				1928-193
				1958-197
White Cloud Creek near Maryville	(d)	06820000	6.06	1948-197
Jenkins Branch at Gower	(d)	06821000	2.72	1950-197
Line Creek at Riverside	(d)	06821280	19.2	1975-198
Brush Creek at Main Street in Kansas City	(d)	06893560	14.8	1970-197
Rock Creek at Independence	(d)	06893600	5.20	1967-197
Shoal Creek at Claycomo	(d)	06893670	29.8	1975-198
L. Blue River bl Longview Dam at Kansas City	(d)	06893793	50.3	1966-199
East Fork L. Blue River near Blue Springs	(d)	06893890	34.4	1974-199
East Fork Fishing River at Excelsior Spring	(d)	06894500	20.0	1950-197
Sni-A-Bar Creek near Tarsney	(d)	06894680	29.1	1970-197
Crooked River near Richmond	(d)	06895000	159	1948-197
Wakenda Creek at Carrollton	(d)	06896000	248	1948-197
Thompson Branch near Albany	(d)	06896500	5.58	1955-197
Thompson River at Mount Moriah	(d)	06898100	891	1960-197
Weldon River near Mercer	(d)	06898500	246	1939-195
Weldon River at Mill Grove	(d)	06899000	494	1929-197
	(d)	06899700	391	1957-197
Shoal Creek near Braymer	(α)	06899700	391	1957-197
Medicine Creek near Galt	(d)	06900000	225	1921-197
	( 1)	0.6000000	125	1977-199
West Yellow Creek near Brookfield	(d)	06902200	135	1959-197
Hamilton Branch near New Boston	(d)	06902500	2.51	1955-197
Mussel Fork near Musselfork	(d)	06906000	267	1948-195
				1962-199
Thomas Hill Lake near Thomas Hill	(e)	06906350	147	1966-197
Middle Fork Chariton River below Salisbury	(d)	06906470	201	1964-197
Burge Branch near Arrow Rock	(d)	06906600	0.33	1959-197
Flat Creek near Sedalia	(d)	06906700	148	1958-196
Lamine River at Clifton City	(d)	06907000	598	1922-197
South Fork Blackwater near Elm	(d)	06907500	16.6	1954-197
Blackwater River at Valley City	(d)	06907700	547	1958-197
Shiloh Branch near Marshall	(d)	06908500	2.87	1952-196
Moniteau Creek near Fayette	(d)	06909500	81	1948-196
Petite Saline Creek near Boonville	(d)	06910000	182	1948-196
Hinkson Creek at Columbia	(d)	06910230	44.8	1964-197
				1986-199

Station name	Type of record	Station number	Drainage area (mi <sup>2</sup> )	Period of record
Cedar Creek near Columbia	(d)	06910410	70.2	1966-1982,
Chesapeake Spring at Chesapeake	(d)	06918444		1987-1991 1926, 1932, 1936, 1954,
Oak Grove Branch near Brighton	(d)	06918700	1.30	1963-1968 1956-1975
Little Sac River at Aldrich	(d)	06918700	304	1967-1968
Pomme de Terre River near Bolivar	(d)	06921000	225	1950-1969
Pomme de Terre River at Hermitage	(d)	06921500	655	1921-1965
South Grand River at Archie	(d)	06921590	356	1969-1986
South Grand River at Urich	(d)	06921600	670	1960-1969
Big Creek at Blairstown	(d)	06921720	414	1960-1974
Brushy Creek near Blairstown	(d)	06921740	1.15	1960-1975
South Grand River near Brownington	(d)	06922000	1,660	1921-1971
Big Buffalo Creek near Stover	(d)	06922800	24.2	1965-1977
Niangua River near Windyville	(d)	06923250	338	1991-1996
Bennett Spring at Bennett Springs	(d)	06923500		1916-1920,
5 111 at 5 111 at 5	( /			1928-1941,
				1965-1995
Niangua River near Decaturville	(d)	06924000	627	1929-1969
Starks Creek at Preston	( a )	06035300	4.18	1056 1076
Van Cleve Branch near Meta	(d) (d)	06925200 06926200	4.16 0.75	1956-1976 1956-1972
Osage River near St. Thomas	(d)	06926500	14,500	1931-1996
Big Hollow near Fulton	(d)	06927200	4.05	1957-1972
-	( 3 )	06000000	404	
Osage Fork Gasconade River at Drynob	(d)	06927800	404	1962-1981
Laquey Branch near Hazlegreen	(d)	06928200	1.58	1958-1972
Gasconade River near Waynesville	(d)	06928500	1,680	1914-1971
Beeler Branch near Cabool	(d)	06928700	7.78	1967-1976
Little Beaver Creek near Rolla	(d)	06931500	6.45	1947-1975
Loutre River at Mineola	(d)	06935500	202	1947-1967
Coldwater Creek near Hazelwood	(d)	06936200	12.1	1996-2001
Coldwater Creek near St. Louis	(d)	06936500	43.6	1959-1965
Meramec River at Cook Station	(d)	07010350	199	1965-1981
Maramec Spring near St. James	(d)	07010500		1903-1906,
				1921-1929,
				1965-1986
Green Acre Branch near Rolla	(d)	07011500	0.62	1947-1975
Bourbeuse River near St. James	(d)	07015000	21.3	1947-1981
Lanes Fork near Rolla	(d)	07015500	0.225	1952-1971
Bourbeuse River near Spring Bluff	(d)	07016000	608	1943-1981
Dry Branch near Bonne Terre	(d)	07017500	3.35	1955-1975
Sandy Creek near Pevely	(d)	07019690	32.5	1966-1968, 1969-1972
Plattin Creek at Plattin	(d)	07019790	65.8	1965-1972
Saline Creek near Minnith	(d)	07020270	82.6	1968-1981
Brewers Creek near Ironton	(d)	07033800	2.19	1964-1966
St. Francis River near Roselle	(d)	07034000	234	1983-1997
Little St. Francis River at Fredericktown	(d)	07035000	90.5	1983-1997
Barnes Creek near Fredericktown	(d)	07035500	3.35	1955-1975
St. Francis River near Saco	(d)	07036100	664	1983-1997
Clark Creek near Piedmont	(d)	07037700	4.39	1956-1976
Little River Ditch 81 near Kennett	(d)	07041000	111	1926-1979
Little River Ditch 1 near Kennett	(d)	07042000	235	1926-1979
Little River Ditch 251 near Lilbourn	(d)	07042500	235	1945-1991
Castor River at Aquilla	(d)	07043000	175	1945-1981
Little River Ditch 251 near Kennett	(d)	07044000	883	1926-1979
Little River Ditch 66 near Kennett	(d)	07045000		1926-1979

# DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Type of record	Station number	Drainage area (mi²)	Period of record
Little River Ditch 66-A near Kennett	(d)	07045500		1927-1965
Little River Ditch 259 near Kennett	(d)	07046000	89.0	1926-1979
Roaring River Spring near Cassville	(d)	07050150		1965-1968
James River near Strafford	(d)	07050580	165	1973-1986
Wilson Creek below Springfield	(d)	07052150	47.2	1967-1972
Hodgson Mill Spring at Sycamore	(d)	07057800		1965-1968
East Fork L. Black River near Lesterville	(d)	07061300	94.5	1960-1990
Black River near Leeper	(d)	07062500	987	1921-1994
Fudge Hollow near Licking	(d)	07064300	1.72	1956-1976
Montauk Springs at Montauk	(d)	07064400		1964-1968
Big Creek near Yukon	(d)	07064500	8.36	1949-1975, 1960-1990
Round Spring at Round Spring	(d)	07065000		1928-1939, 1965-1979
Alley Spring at Alley	(d)	07065500		1928-1939, 1965-1979
Current River near Eminence	(d)	07066500	1,272	1921-1975
Middle Fork Little Black River at Grandin	(d)	07068250	6.85	1980-1984
North Prong Little Black River near Grandin	(d)	07068300	39.4	1980-1984
Little Black River near Grandin	(d)	07068380	79.5	1980-1984
Little Black River below Fairdealing	(d)	07068510	194	1980-1986
Logan Creek at Oxly	(d)	07068540	37.5	1980-1984
Little Black River at Success, AR	(d)	07068600	386	1980-1986
Fourche River near Poynor	(d)	07068863	87.2	1976-1983
Eleven Point River near Thomasville	(d)	07070500	361	1950-1976
Stahl Creek near Miller	(d)	07185500	3.86	1950-1976
Spring River at La Russell	(d)	07185700	306	1947-1981
Center Creek near Carterville	(d)	07186400	232	1962-1991
Center Creek below Carl Junction	(d)	07186475	299	1993-1995
Turkey Creek near Joplin	(d)	07186600	41.8	1963-1972

The following surface-water-quality stations in Missouri have been discontinued or converted to partial-record stations. Water-quality data (daily or periodic samples with collection frequency not less than quarterly) were collected and published for the period of record shown for each station. Discontinued project stations with less than three years of record are not included. Information regarding these stations may be obtained from the District Chief at the address given on the back of the title page of this report.

[Type of record: (B) biological, (C) chemical, (M) microbiological, (S) sediment, (T) temperature]

Mississippi River at Canton Middle Fabius River near Monticello North River at Palmyra Mississippi River at Hannibal North Fork Salt River near Shelbina Middle Fork Salt River at Paris	05495150 05498000 05501000 05501600	 393	C,T S	1969-1975
Middle Fabius River near Monticello North River at Palmyra Mississippi River at Hannibal North Fork Salt River near Shelbina North Fork Salt River near Hunnewell	05498000 05501000	393		1000 1000
North River at Palmyra Mississippi River at Hannibal North Fork Salt River near Shelbina North Fork Salt River near Hunnewell	05501000			1980-1986
Mississippi River at Hannibal North Fork Salt River near Shelbina North Fork Salt River near Hunnewell		373	C	1972-1975
North Fork Salt River near Shelbina  North Fork Salt River near Hunnewell		3/3		
North Fork Salt River near Hunnewell			C,M	1982-1989
	05502500	481	S	1988-1994
Middle Fork Salt River at Paris	05503500	626	S	1980-1988
	05506500	356	S	1980-1997
Salt River near New London	05508000	2,480	C,M,T	1967-1975
oute River hear new Bondon	0330000	2,100	0,11,1	1977-1990
			S	1980-199
Mississippi River at Alton, IL	05587500	171,500	S	1980-1985
MISSISSIPPI RIVEL AC ALCOII, IL	05567500	1/1,300	۵	
Mississippi River below Alton, IL	05587550	171,500	C,M	1986-1989 1975-1989
,		,	2,11	
Nodaway River near Oregon	06817800		C,M	1968-1979
				1977-1989
Platte River at Platte City	06821200		C	1967-197
Missouri River at Sibley	06894100		C,T	1972-197
Thompson River near Chillicothe	06899620		C,M	1968-197
				1983-198
East Fork Little Chariton River near Macon	06906200	112	C	1971-197
Middle Fork L. Chariton R. below Salisbury	06906470	201	C,M	1983-198
Burge Branch near Arrow Rock	06906600	0.33	S	1961-196
Lamine River near Blackwater	06908800	2,610	B,C,M,T	1979-198
Missouri River at Boonville	06909000	505,700	Б,С,М,1 Т	
MISSOURI RIVER At BOORVIIIE	06909000	505,700	1	1953-195
Hinkson Creek at Columbia	06910230	70.2	Т	1960-196 1987-199
HIMSON CICCA at Columbia	00910230	70.2	1	1007 100
Cedar Creek near Columbia	06910410	44.8	C,M	1987-199
Cedar Creek near Ashland	06910414		C,M	1983-198
Marais Des Cygnes River near Worland	06916650	3,230	C,M	1962-196
				1972-197
				1977-198
East Fork Drywood Creek at Prairie State Park	06917630		C,M	1994-199
Sac River near Dadeville	06918440	257	C,M,T	1974-197
			- / / -	1980-198
				1983-198
	0.601.000	1 160	_	1054 105
Stockton Lake near Stockton	06918990	1,160	T	1974-197
Pomme de Terre River near Hermitage	06921350	615	T	1974-197
Pomme de Terre River at Hermitage	06921500	615	T	1970-197
South Grand River at Urich	06921600	670	C,M	1983-198
South Grand River near Clinton	06921760	1,270	S	1991-199
West Fork Tebo Creek near Lewis	06922190		C,M	1983-199
Trib. to Middle Fork Tebo Creek nr Leeton	06922075		Ċ	1989-199
Tebo Creek at Leesville	06922200		B,C,M,T	1978-198
Osage River at Warsaw	06922500	11,500	T	1969-197
Big Buffalo Creek near Stover	06922800	24.2	T	1965-197
	0.505.55	o		
Big Buffalo Creek at Big Buffalo Wildlife Area	06922850	24.5	C.M	1994-199
Dousinbury Creek near Wall Street	06923150	39.5	C.M	1993-199
Niangua River near Windyville	06923250	338	C,M	1991-199
Bennett Spring at Bennett Springs	06923500		C,M	1991-199
Ha Ha Tonka Spring at Ha Ha Tonka State Park	06924500		C,M	1994-199
Coakley Hollow Spr. Br. at Lake of the Ozarks	06925445		C,M	1994-199
Gasconade River near Hooker	06928600		C,M	1977-198
	06935840		C,T	1969-197
		338		
Missouri River near St. Louis Paddy Creek above Slabtown Springs	06929318	5 5 X	C,M	1991-199

Station name	Station number	Drainage area (mi²)	Tye of record	Period of record
Mississippi River at East St. Louis, IL	07001000		С	1969-1973
Crooked Creek near Dillard	07013050		C	1982-1988
Coonville Creek at St. Francis State Park	07013030		C,M	1993-1997
Meramec River near Eureka	07017003	3,788	C,M	1978-1994
Pickle Creek at Hawn State Park	07019000	3,700	C,M	1978-1994
Pickie Creek at Hawn State Park	07020200		C , M	1994-1997
Mississippi River at Cape Girardeau	07020850		C,T	1969-1974
Headwater Diversion Channel near Allenville	07021800		C	1969-1975
Big Creek at Chloride	07036940		C	1969-1975,
				1983-1990
St. Francis River at St. Francis, AR	07040100		C	1969-1975
Little River Ditch 1 near Morehouse	07043500	450	C,M	1996-1997
Little River Ditches near Kennett	07046001		C,M	1969-1970,
Bittic River bittings hear Remiete	07040001		C,1·1	1972-1973,
				1977-1989,
				1992-1993
Roaring River at Roaring River State Park	07050152		C,M	1991-1993
James River near Nixa	07050152	273	T T	1966-1975,
Danies River hear Nixa	07030730	2/3	1	1977-1980
James River near Wilson Creek	07051600		C,M	1967-1982,
James River hear wilson creek	0/051600		C , M	1987-1982,
Wilson Creek near Springfield	07052100	31.4	О П	1983-1987
wilson creek hear springileid	07052100	31.4	C,T	1972-1962
Wilson Creek below Springfield	07052150	47.2	C,T	1967-1970,
				1970-1972
James River west of Nixa	07052200	440	C	1962-1963,
				1965-1967
Finley Creek at Riverdale	07052340		C	1967-1975
Double Spring near Dora	07057475		C,M	1994-1997
Black River at Poplar Bluff	07063000	1,245	C,M	1983-1987
Black River below Poplar Bluff	07063050		С	1969-1975
Main Ditch near Neelyville	07063330		C	1969-1975
Middle Fork Little Black River at Grandin	07068250	6.85	T	1980-1984
North Prong Little Black River near Grandin	07068300	39.4	C,M	1980-1984
Little Black River near Grandin	07068380	79.5	C,M,S,T	1980-1984
Bittit Biack River hear Granarii	07000300	75.5	C,11,5,1	1000 1004
Logan Creek at Oxly	07068540	37.5	C,M,S,T	1980-1984
Little Black River near Naylor	07068550		C	1969-1975
Little Black River at Success, AR	07068600	386	C,M,S,T	1980-1986
Fourche River near Poynor	07068863	87.2	T	1976-1983
Fourche River near Middlebrook, AR	07068867		C	1969-1975
Spring River near Thayer	07069170		С	1969-1975
Mammoth Spring at Mammoth Spring, AR	07069170		C,M	1994-1996
Eleven Point River below Bardley	07009200		C,M	1969-1975
Spring River near Waco	07186000	1,164	C	1965-1975,
Spring River hear waco	07100000	1,104	C	1977-1978,
				1980-1981
Center Creek near Carterville	07186400	232	C,M	1980-1989
TITLE OF SOLUTION SOL	0.100100	202	J , 1·1	1700 1707
Shoal Creek above Joplin	07187000	427	C,M	1968-1968,
				1979-1982
Shoal Creek near Galena, KS	07187560		C	1968-1975
Lost Creek at Seneca	07188500	42	C	1967-1975
Little Sugar Creek at Caverna	07188820		C	1967-1975
Buffalo Creek at Tiff City	07189100		C	1967-1975

#### INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with local, State, and Federal agencies and organizations, obtains a large quantity of data pertaining to the water resources of Missouri each water year (October 1 to September 30). These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of Missouri. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in this report series, entitled "WATER RESOURCES DATA - MISSOURI." This volume contains records for water discharge at 172 gaging stations; elevation at 12 lakes and reservoirs; water quality at 113 sampling stations (including 2 lakes); and data for 39 crest-stage stations.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey Water-Supply Papers entitled, "Surface Water Supply of the United States." These Water-Supply Papers were in an annual series through September 30, 1960, and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperature, and suspended sediment were published from 1941 to 1970 in an annual series of Water-Supply Papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of Water-Supply Papers entitled, "Ground-Water Levels in the United States." Water-Supply Papers are in the libraries of the principal cities in the United States or may be purchased from the U.S. Geological Survey, Information Services, Federal Center, Box 25286, Denver, CO 80225.

For water years 1961 through 1974, streamflow data were released by the U.S. Geological Survey in annual reports on a Stateboundary basis. Water-quality records for water years 1964 through 1974 similarly were released either in separate reports or in conjunction with streamflow records.

Beginning with water year 1975, water data for streamflow, water quality, and ground water are published in Survey reports on a State-boundary basis. These reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report MO-02-1."

For archiving and general distribution, the reports for water years 1971-74 also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on back of the title page or by telephone (573) 308-3667.

#### COOPERATION

The U.S. Geological Survey and State and local agencies and organizations in Missouri have had cooperative agreements for the systematic collection of streamflow records since 1921, and for water-quality records since 1964. Organizations that assisted in collecting data published in this report through cooperative agreements are:

City of Columbia
City of Perryville
City Utilities of Springfield
Holt County
Kansas City Water Service Department
Metropolitan St. Louis Sewer Dist.
Missouri Department of Conservation
Missouri Department of Natural Resources
Geological Survey and Resource Assessment
Division
Water Protection and Soil Conservation
Division
Water Pollution Control Program

The following Federal, State, and local agencies and organizations assisted in the collection of data published in this report by providing funds or services:

Missouri Department of Transportation

St. Charles County Rivers and Streams Proj.

Ameren UE Company of Missouri
National Park Service, Midwest Region
Sho-Me Power Electric Cooperative
U.S. Army Corps of Engineers
U.S. Department of Agriculture
U.S. Forest Service
U.S. Department of the Army
U.S. Department of Commerce
National Oceanic and
Atmospheric Administration
National Weather Service
U.S. Department of Energy
U.S. Fish and Wildlife Service

#### WATER USE--2000

Listed below are general water-use facts for the state of Missouri. The major water uses and percentage of surface water and ground water for 2000 are shown in figure 1.

#### MISSOURI WATER USE FACT SHEET

- Total water use in Missouri was 8,240 million gallons per day (Mgal/d).
- Total population was 5.60 million, an increase of 5.3 percent from 1995.
- Per capita water use for all uses was 1,470 gallons per person per day.
- Surface-water withdrawals totalled 6,450 Mgal/d, about 78.3 percent of the total use. The largest use was in the St. Louis and Kansas City metropolitan areas.
- Ground-water withdrawals totalled 1,790 Mgal/d, about 21.7 percent of total use. The largest ground-water use was for irrigation in southeastern Missouri.
- 6. The largest overall use of water was for thermoelectric power generation, about 5,640 Mgal/d to produce 76,700 gigawatthours of electricity.
- 7. Surface water accounts for 5,620 Mgal/d (99.8 percent) of the thermoelectric power generation use. About 5,200 Mgal/d of surface water was used by plants with once-through cooling water systems; the remainder was used by plants with recirculating cooling water systems.
- The largest use of ground water was 1,380 Mgal/d for irrigation. Total irrigation water use was 1,430 Mgal/d.

- Water withdrawals by public suppliers was 872 Mgal/d; 68.1 percent surface water and 31.9 percent ground water.
- 10. Domestic water use was 491 Mgal/d; 11 percent self-supplied and 89 percent public-supplied. Per capita domestic water use was 87.8 gallons per person per day.
- 11. Commercial water use was 87.0 Mgal/d; 14 percent self-supplied and 86 percent public-supplied.
- 12. Industrial and mining water use was 200
   Mgal/d; 40 percent self-supplied and 60
   percent public-supplied.
- 13. Public use and losses were 238 Mgal/d, calculated from the total water withdrawals for public supply minus deliveries to domestic, commercial, industrial, and thermoelectric uses.
- 14. Non-irrigation agriculture water use was 156 Mgal/d for livestock and aquaculture use. About 83.3 Mgal/d is used for fish farms and in-stream fish hatcheries.
- 15. Water use for in-stream and off-stream hydroelectric power generation was 10,900 Mgal/d to produce 408 gigawatt-hours of electricity. These values are not included in the withdrawal totals, as the water was left in or returned to the stream with no appreciable losses.

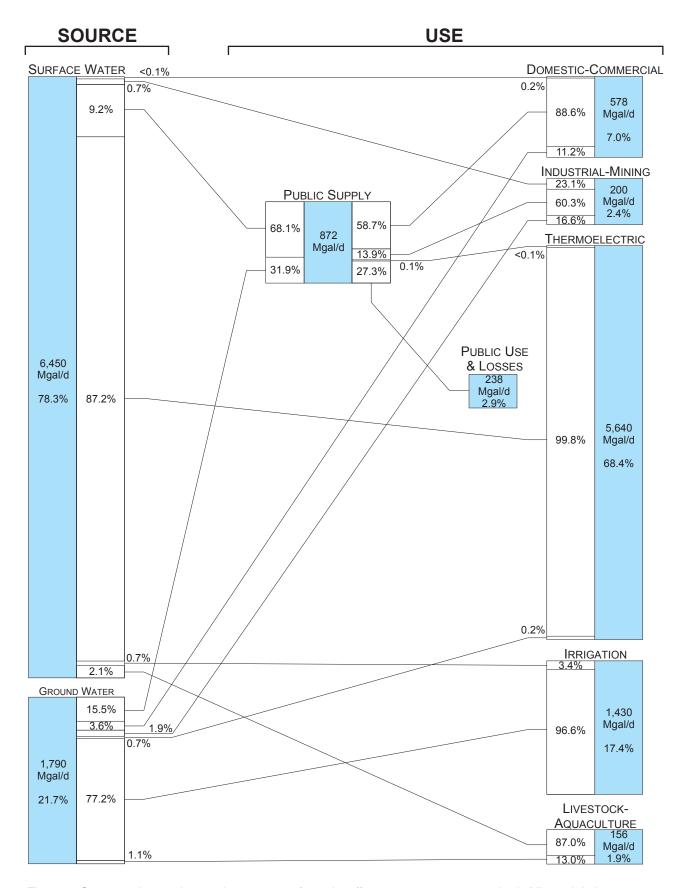


Figure 1. Source and use values and percentages for major offstream water-use categories in Missouri during 2000.

#### SUMMARY OF HYDROLOGIC CONDITIONS

#### PHYSIOGRAPHY

Missouri has three distinct physiographic areas—the Central Lowland in the north and west, the Mississippi Alluvial Plain in the southeast, and between them the Ozark Plateaus (Figure 2).

The Central Lowland includes most of the area north of the Missouri River and a large area south of the river in the western part of the State. Elevations range from about 450 to 1,000 feet above National Geodetic Vertical Datum of 1929. The area has numerous wide, flat valleys incised by rivers.

The Ozark Plateaus in the southern part of the State is wooded, rugged, and has deep, narrow valleys with sharp ridges separating the valleys. Elevations range from about 1,000 to 1,600 feet above National Geodetic Vertical Datum of 1929.

The Mississippi Alluvial Plain (Bootheel) is a relatively flat area of about 3,000 square miles in the extreme southeast part of the State. Elevations range from about 200 to 300 feet above National Geodetic Vertical Datum of 1929. The area is well drained and contains excellent farmland.

#### Surface Water--Streamflow

Streamflow varies seasonally in Missouri and often reflects precipitation patterns unless the stream is regulated. Precipitation was above normal throughout the entire state during January and May. Missouri received below normal precipitation during February. Above normal precipitation was experienced in the Northwest Prairie (figure 3) in April; the Northeast Prairie in October, April, and August; the West Central Plains in October, and April; the West Ozarks in October, December, April, and July; the East Ozarks in October, November, December, March, April, August, and September; and the Bootheel in October, November, December, June, and September.

Generally, the 2002 water year mean discharges were greater than long-term mean discharges in southern and northeast Missouri and less than long-term mean discharges in northwest Missouri (figure 2). Monthly discharges during the 2002 water year and long-term monthly mean discharges at six representative stations are shown in Figure 3.

Peak discharges for the 2002 water year are compared to the peak discharges for the period of record at 14 selected gaging stations in Table 1. The 7-day average low flow for the 2001 water year is compared to the 7-day, 2-year low flow and minimum flow for selected stations in Table 2. The 7-day, 2-year low flow is the 7-day average minimum flow with a recurrence interval of 2 years.

Table 1: Comparisons of peak discharge for the 2002 water year with those for period of record for selected stations

ber.	ecced stations	•		
	Peak dischar			charge for
	<u>2002 wate</u>	er year	period	of record
	Cubic feet		Cubic feet	
Station identification	per second	Date	per second	Date
05495000 Fox River at Wayland	10,900	May 13	26,400	Apr. 22, 1973
-		-	•	-
05587450 Mississippi River at Grafton, Ill.	380,000	May 15	598,000	Aug. 1, 1993
06893000 Missouri River at Kansas City	73,900	May 13	573,000	July 14, 1951
06894000 Little Blue River near Lake City	5,130	May 25	42,300	Aug. 13, 1982
06897500 Grand River near Gallatin	28,700	May 12	89,800	July 7, 1993
06905500 Chariton River near Prairie Hill	37,100	May 13	37,100	
06933500 Gasconade River at Jerome	51,700	May 10	136,000	Dec. 5, 1982
06934500 Missouri River at Hermann	348,000	May 14	750,000	July 31, 1993
07010000 Mississippi River at St. Louis	682,000	May 17	1,080,000	Aug. 1, 1993
07019000 Meramec River near Eureka	56,600	May 11	145,000	Dec. 6, 1982
07022000 Mississippi River at Thebes, Ill.	838,000	May 18	996,000	Aug. 7, 1993
07057500 North Fork River near Tecumseh	55,700	May 8	133,000	Nov. 19, 1985
07068000 Current River at Doniphan	70,400	May 10	122,000	Dec. 3, 1982
07186000 Spring River near Waco	35,900	May 9	151,000	Sept. 26, 1993

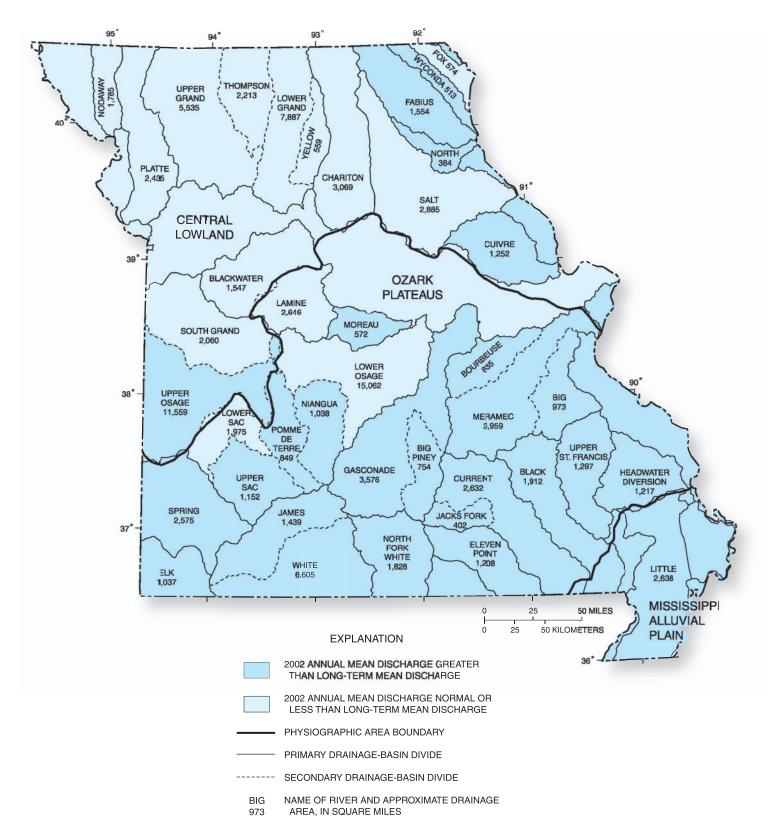


Figure 2. Major drainage basins, physiographic areas, and areas of greater than long-term mean discharge during 2002.

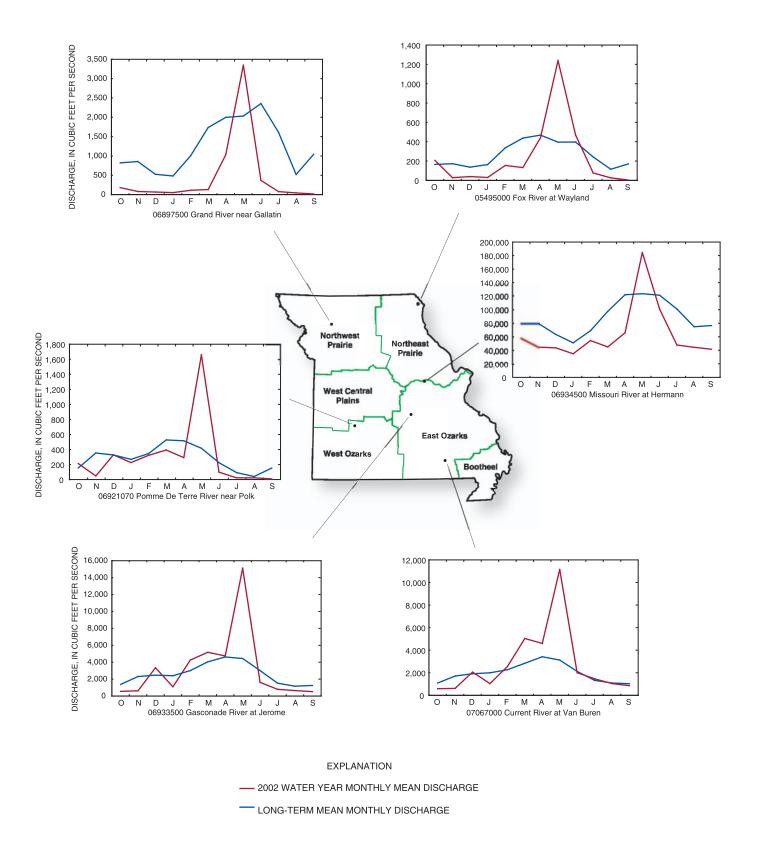


Figure 3. Comparison of 2002 water-year mean discharge to long-term mean discharge.

Table 2.--Comparisons of 2002 7-day low flows to 7-day, 2-year low flows and minimum flows for the period of record at selected stations

[Flows in cubic feet per second]					
Station identification and period of record used (water years)	Average 7-day low flows		Minimum flows for period of record used		
	2002	2-year <sup>1</sup>	Discharge	Years of occurrence	
05495000 Fox River at Wayland (1922-97)	2.0	1.3	0	Several years	
06820500 Platte River near Agency (1933-97)	18	17	0	Several years	
06921070 Pomme de Terre River near Polk (1969-97)	6.1	3.0	0.3	1980	
07016500 Bourbeuse River at Union (1921-97)	31	32	13	1956	
07067000 Current River at Van Buren (1912-97)	536	700	479	1956	
07187000Shoal Creek above Joplin (1942-97)	84	92	16	1954	

Skelton, John, 1976, Missouri stream and springflow characteristics--Low-flow frequency and flow duration: Rolla, Missouri Division of Geology and Land Survey Water Resources Report 32, 76 p.

#### Water Quality--Streamflow

Samples for determining the chemical quality of streamflow were collected at 109 stations in Missouri. Data collected at these stations, in addition to streamflow data, include some or all of the following properties or constituents: water temperature, specific conductance, dissolved oxygen, pH, carbonate, bicarbonate, alkalinity, inorganic constituents, nutrients,

trace elements, indicator bacteria, sediment, and pesticides.

Missouri streams generally are not contaminated by industrial wastes. Localized contamination may occur near urban areas, industrialized centers, agricultural-chemicaluse areas, and waste-dump sites.

Table 3.--Range of dissolved-solids concentrations in selected streams during the water year.

	Dissolved-solids concentration (milligrams per liter)		
Station identification	Minimum	Maximum	
Cuivre River near Troy	188	230	
Missouri River at St. Joseph	440	548	
Grand River near Sumner	262	401	
Osage River below St. Thomas	140	148	
Gasconade River above Jerome	125	206	
Missouri River at Hermann	176	497	
Meramec River at Paulina Hills	172	260	

Daily suspended-sediment samples and data on the particle size of suspended sediment were collected at four stations in Missouri. At three Missouri River stations, point suspendedsediment samples and particle-size data were collected periodically. The following table lists two selected stations on the Mississippi River at Grafton and Thebes, Ill. and their minimum and maximum daily mean suspended-sediment concentrations during water year.

Table 4.--Minimum and maximum daily mean suspended-sediment concentrations at two selected stations.

	Daily mean suspended-sediment concent: (milligrams per liter)		
Station identification		Minimum	Maximum
Mississippi River at Grafton, IL		40	737
Mississippi River at Thebes, IL		72	987

#### SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the affects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at:

http://water.usgs.gov/hbn/.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and remobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at:

http://water.usgs.gov/nasqan/.

The Ambient Water-Quality Network (AWQN) is a statewide data-collection network designed by both the U.S. Geological Survey and the Missouri Department of Natural Resources to meet many of the information needs of State agencies and other groups involved in Statewide water-quality planning and management. There are currently 65 member stations within this network. station has been assigned a U.S. Geological Survey downstream station number under which all data are stored in NWIS (the U.S. Geological Survey national water-quality data base). The objectives of AWQN are (1) to obtain information on the quality and quantity of water moving within the State; (2) provide for a historical data base of water-quality information that can be used by State planning and management agencies to make informed decisions about cultural impacts on the State's surface waters; and (3) provide for consistent methodology in data collection, laboratory analysis, and data reporting.

Additional information about the AWQN Program is available through the World Wide Web at:

http://missouri.usgs.gov

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found

http://bqs.usgs.gov/acidrain/.

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program can be found at:

http://water.usgs.gov/nawqa/nawqa\_home.html

Radiochemical Programs is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

#### EXPLANATION OF THE RECORDS

The surface- and ground-water records published in this report are for the water year that began October 1, 2001, and ended September 30, 2002. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, and water-quality data for the surface water. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

### Station Identification Numbers

Each data station, whether stream site or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The system used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water sites will differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitudelongitude" system is used for wells and, in Missouri, for surface-water stations where only miscellaneous measurements are made.

#### Downstream Order and Station Number

Since October 1, 1950, the order of listing hydrologic-station records in U.S. Geological Survey reports is in a downstream direction along the mainstream. All stations on a tributary entering upstream from a mainstream station are listed before that station. station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. The downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8digit number for each station such as 06909000, which appears just to the left of the station name, includes the 2-digit part number "06" plus the 6-digit downstream-order number "909000".

Numbering System for Wells and Miscellaneous  $\hspace{1.5cm} \text{Sites} \\$ 

The 8-digit downstream-order station numbers are not assigned to miscellaneous sites where only random water-quality samples or discharge measurements are taken. The miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the miscellaneous sites and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the sites within a 1-second grid (Figure 4).

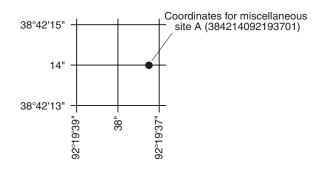


Figure 4. System for numbering miscellaneous sites (latitude and longitude).

## Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharge may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or any period of time. They may be obtained using a continuous stage-recording device, but need not be. Locations of surfacewater stations are shown in Figures 5 and 7-13.

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Data Collection and Computation

The data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from electronic retrieval of data via satellite from a data-collection platform at the gaging station, direct readings on a non-recording gage, or from a water-stage recorder that gives either an electronically stored value, a continuous graph of the fluctuations, or a tape punched selected time intervals. at Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey. These methods are described in standard textbooks, U.S. Geological Survey Water-Supply Paper 2175, and the U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's) Book 3, Chapter Al through Al9 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

For stream-gaging stations, rating tables giving the discharge for any stage are prepared stage-discharge-relation extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements; computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stagedischarge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stagedischarge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shiftingcontrol method.

At some gaging stations, acoustic velocity meter (AVM) systems are used to compute discharge. The AVM system measures the stream's velocity at one or more paths in the cross section. Coefficients are developed to relate this path velocity to the mean velocity in the

cross section. Because the AVM sensors are fixed in position, the adjustment coefficients generally vary with stage. Cross-sectional area curves are developed to relate stage, recorded as noted above, to cross-section area. Discharge is computed by multiplying path velocity by the appropriate stage related coefficient and area.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations, the stage-discharge relation is affected by ice in the winter and it becomes impossible to compute the discharge in the usual manner. Discharge for period of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

#### Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts: the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

#### Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD. -- This indicates the period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation

at a time that the present station was not and whose location was such that flow at it can reasonably be considered equivalent to flow at the present station.

REVISED RECORDS. -- Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see "DEFINITION OF TERMS" section), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily discharge will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See next section, "IDENTIFYING ESTIMATED DAILY DISCHARGE.") If a "REMARKS" paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph also is used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "REVISED RECORDS" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "REMARKS" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for "AVERAGE DISCHARGE", "EXTREMES FOR PERIOD OF RECORD", and "EXTREMES FOR CURRENT YEAR" have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the "EXTREMES FOR CURRENT YEAR" paragraph, is now presented in the tabular summaries following the discharge table or in the "REMARKS" paragraph, as appropriate. No changes have been made to the data presentation of lake contents.

### Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN."). The figure for cubic feet per second per square mile and runoff in inches may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol corresponding footnote.

#### Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR PERIOD OF RECORD, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the "PERIOD OF RECORD" paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

#### Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "FOR PERIOD OF RECORD," will consist of all of the stations record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated "ANNUAL" (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the "REMARKS" paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the "REMARKS" paragraph or in footnotes.

Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN. -- The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN. -- The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

MAXIMUM PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in a footnote or

in the REMARKS paragraph in the manuscript. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum
instantaneous discharge occurring for
the water year or for the designated
period.

ANNUAL RUNOFF.--Indicates the total quanity of water in runoff for a drainage area for the year.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

- 10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.
- 50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.
- 90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partialrecord stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements generally are made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

#### Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily value with the letter symbol "e" and printing a table footnote, "e Estimated", or by listing the dates of the estimated record in the "REMARKS" paragraph of the station description.

Accuracy of Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-

discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good", within 10 percent; and "fair", within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharge of less than 1.0 cubic foot per second; to tenths between 1.0 and 10 cubic feet per second; to whole numbers between 10 and 1,000 cubic feet per second; and to three significant figures above 1,000 cubic feet per second. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

#### Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as observations of water temperatures, discharge measurements, gage-height records, and rating tables, is on file in the District Office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District Office.

The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of all discharge measurement sites in the State as well as an index of records of discharge

collected by other agencies but not published by the U.S. Geological Survey. Information on records available at specific sites can be obtained upon request.

#### Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always require corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

#### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of surface-water-quality stations are shown in Figures 6-13.

# Arrangement of Records

Water-quality records collected at surface-water daily record station are published immediately following that record, regardless of the frequency or sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surfacewater station, the continuing water-quality records are published with its own station number and name in the regular downstream-order sequence. Water-quality data for partialrecords stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is ensuring that the data obtained represents the in-situ quality of water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To ensure that measurements made in the laboratory also represent the in-situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations, " Book 1, Chapter D2; Book 3, Chapter A1, A3, and A4; Book 9, Chapter A1-A9. These references are listed in the "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY" section of this report. These methods are consistent with the ASTM standards and generally follow ISO standards.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section homogenous. However, the concentration solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. Chemical-quality data published in this report are considered to be the representative values available for the stations listed. The values reported represent waterquality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon bihourly readings beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the District Office.

#### Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once daily, the water temperatures are taken at about the same time each day. Large streams have a small daily temperature change;

shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, maximum, minimum, and mean temperatures for each day are published.

#### Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations measured immediately before and after the periods, and suspendedsediment loads for other periods of similar discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

The daily suspended-sediment concentrations for the Mississippi River at St. Louis are derived from turbidity readings from the Chain of Rocks Water-Treatment Plant and the Chouteau Island Water-Treatment Plant. Approximately once a week, two depth-integrated verticals are taken to adjust the relation between suspended sediment and turbidity.

#### Laboratory Measurements

Samples for indicator bacteria, specific conductance, pH, temperature, dissolved oxygen, and alkalinity are analyzed locally. All other samples are analyzed in the U.S. Geological Survey laboratories in Arvada, CO, Ocala, FL, and Rolla, MO. Methods used to analyze sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the U.S. Geological Survey laboratories are given in TWRI Book 1, Chapter

D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Quality Assurance of Water-Quality Data

Quality assurance is a system of activities whose purpose is to produce a product with the assurance that it meets defined standards of quality with a stated level of confidence. A quality assurance program became an integral part of the ambient water-quality monitoring network in fiscal year 1993. The program involved collecting additional samples to measure sampling repeatability, container cleanliness, and equipment cleanliness during regular site visits when environmental samples were being collected. The results of these additional samples are used by the District Water-Quality Specialist to define problem areas and eliminate further contamination of samples and/or improper sampling procedures. A data base of quality-assurance data has been created and contains all quality-assurance data collected within the District. These data can be retrieved by written request through the District Water-Quality Specialist.

#### Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, and biological data obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither "LOCATION" nor the "DRAINAGE AREA" statements are repeated. The following information, when appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge"; same comments apply.

DRAINAGE AREA.--See Data Presentation under "RECORDS OF STAGE AND WATER DISCHARGE"; same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods shown separately for records of parameters measured

daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor, temperature recorder, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES.—-Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published waterquality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequesntly to its web-based National data system, NWISWeb [http:// water.usgs.gov/nwis/nwis]. Because the usual volume of updates makes it impractical to document individual changes in the State datareport series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWEB are currently made on an annual basis.

### Remark Codes

The following remark codes may appear with the water-quality data in this report.

PRINTED OUTPUT	REMARK
<	Numeric result is less than the value shown.
К	Results based on colony count outside the acceptable range (non-ideal colony count).
E	Laboratory estimated value.
LA	Laboratory accident.
М	Presence of material verified, but not quantified.
е	Estimated discharge value.
L	Laboratory value.

\*NOTE.--The National Water Quality Laboratory uses the E remark code in two cases. First, the code is used for reporting values less than the method detection limit (MDL) when the analyte has been conclusively identified. Second, the code is used for reporting values greater than the MDL when the value is substantially more uncertain than for other analytes.

#### Dissolved Trace-Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ( $\mu g/L$ ) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the mg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at most stations in water year 1994.

# Water Quality-Control Data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this district are described in the following section. Procedures have been established for the storage of waterquality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

### Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank

solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

### Reference Samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

#### Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Sequential samples - a type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

#### Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

### ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at:

http://waterdata.usgs.gov

Some water-quality and ground-water data also are available through the WWW at the above address. In addition, data can be provided on 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on the back of the title page.)

#### DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting inch/pound units to International System (SI) units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

**Alkalinity** is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of poly-chlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

**Ash mass** is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter  $(g/m^3)$ , and periphyton and benthic organisms in grams per square meter  $(g/m^2)$ . (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 foot) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Bed material is the sediment mixture of which a
 stream-bed, lake, pond, reservoir, or estuary
 bottom is composed. (See also "Bedload" and
 "Sediment")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This is also called the Autotrophic Index.

Blue-green algae (Cyanophyta) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved solids content of the pore water and lithology and porosity of the rock.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cellsize variation among the algal species. Cell volume (µm3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere  $4/3 \pi r^3$  cone  $1/3 \pi r^2 h$  cylinder  $\pi r^2 h$ . pi  $(\pi)$  is the ratio of the circumference to the diameter of a circle; pi = 3.14159....

From cell volume, total algal biomass expressed as biovolume  $(\mu m^3/mL)$  is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens (C. perfringens) is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable bound-aries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir
 or lake. Unless otherwise indicated, volume
 is computed on the basis of a level pool and
 does not include bank storage.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft<sup>3</sup>/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft<sup>3</sup>/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM,  $(ft^3/s)/mi^2$ ] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

Daily-record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms are the unicellular or colonial algae
 having a siliceous shell. Their concentra tions are expressed as number of cells per
 milliliter (cells/mL) of sample. (See also
 "Phytoplankton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle. Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO3) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\overline{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

where  $n_i$  is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface
 that contains a drainage system with a common
 outlet for its surface runoff. (See "Drainage
 area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravelsized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria are commonly found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on m-E agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include Streptococcus feacalis, Streptococcus feacium, Streptococcus avium, and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warmblooded animals. E. coli are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on m-TEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) concentration value is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an "E" code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an "E" code even though the measured value is greater than the MDL. A value reported with an "E" code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

Euglenoids (Euglenophyta) are a group of algae
 that are usually free-swimming and rarely
 creeping. They have the ability to grow either
 photosynthetically in the light or het erotrophically in the dark. (See also "Phy toplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on m-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart

infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fire algae (Pyrrhophyta) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded,
 transmitted, and/or computed from a gaging
 station. Gage values typically are collected
 at 5-, 15-, 30- or 60-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae have chlorophyll pigments similar
in color to those of higher green plants. Some
forms produce algae mats or floating "moss" in
lakes. Their concentrations are expressed as
number of cells per milliliter (cells/mL) of
sample. (See also "Phytoplankton")

Habitat, as used in this report, includes all
nonliving (physical) aspects of the aquatic
ecosystem, although living components like
aquatic macrophytes and riparian vegetation
also are usually included. Measurements of
habitat are typically made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO<sub>3</sub>).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA web site:

http://www.co-ops.nos.noaa.gov/tideglos.html

Hilsenhoff's Biotic Index (HBI) is an indicator
 of organic pollution that uses tolerance val ues to weight taxa abundances; usually
 increases with pollution. It is calculated as
 follows:

$$IBI = sum \frac{(n)(a)}{N}$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), as used in this report, refers
to the depth to which the drainage area would
be covered with water if all of the runoff for
a given time period were uniformly distributed on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a
 particular instant of time. (See also "Dis charge")

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation,
is flooded once a year on average, and remains
stable except during large flood events.

Laboratory reporting level (LRL) is generally equal to twice the yearly determined longterm method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the nondetection value or NDV-a term that is no longer used.]

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_{o}e^{-\lambda L}$$

where  ${\it I_o}$  is the source light intensity,  ${\it I}$  is the light intensity at length  ${\it L}$  (in meters) from the source, 1 is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as:

$$\lambda = -\frac{1}{L}\log_e$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day.

See NOAA web site:

http://www.co-ops.nos.noaa.gov/tideglos.html

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a spe-cific period. (See also "Discharge") Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymphadult.

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G,  $\mu$ g/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG,  $\mu$ g/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L,  $\mu$ g/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of con-

stituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM,  $\mu$ S/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level". Although the datum was derived from the mean sea level at 26 tide stations, it does not

necessarily represent local mean sea level at any particular place. See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88

(See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC)

Organic mass or volatile mass of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass", "Biomass", and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m²), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

### Classification Size (mm) Method of analysis

Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for

the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or percent of total is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogenion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as

release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also "Plankton")

Picocurie (PC, pCi) is one trillionth (1x10<sup>-12</sup>)
 of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields
 3.7 x 10<sup>10</sup> radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or
 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in
the open water of lakes and rivers. Concentrations are expressed as a number of cells per
milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photo-synthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg  $C/(m^2/\text{time})$ ] for periphyton and macrophytes or per volume [mg  $C/(m^3/\text{time})$ ] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg  $O/(m^2/\text{time})$ ] for periphyton and macrophytes or per volume [mg  $O/(m^3/\text{time})$ ] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms

"return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow  $(7Q_{10})$  is the flow rate below which the annual minimum 7-daymean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the  $7Q_{10}$  occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the  $7Q_{10}$ .

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively
 shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow  $(7Q_{10})$  is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the  $7Q_{10}$  is 10 years; the chance that the annual 7-day minimum flow will be less than the  $7Q_{10}$  is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or

other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0 no gravel or larger substrate

1 > 75 percent 4 5-25 percent

2 51-75 percent 5 < 5 percent

3 26-50 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is defined operationally as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

Kingdom: Animal

Phylum: Arthropoda

Class: Insecta

Order: Ephemeroptera

Family: Ephemeridae

Genus: Hexagenia

Species: Hexagenia limbata

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a watersuspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bac-

teria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on m-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for wholewater samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to U.S. EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table
aquifer")

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the "2002 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight") WSP is used as an acronym for "Water-Supply Paper" in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

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Section D. Water Quality

1-D1. Water temperature-influential factors, field measurement, and data presentation, by H. H. Stevens, Jr.,

- J.F. Ficke, and G. F. Smoot: USGS-TWRI book 1, chap. D1. 1975. 65 p.
- 1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W.W. Wood: USGS-TWRI book 1, chap. D2. 1976. 24 p.

### Book 2. Collection of Environmental Data Section D. Surface Geophysical Methods

# 2-D1. Application of surface geophysics to ground-water investigations, by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS-TWRI book 2, chap. D1. 1974. 116 p.

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### Section E. Subsurface Geophysical Methods

- 2-E1. Application of borehole geophysics to water-resources investigations, by W.S. Keys and L.M. MacCary: USGS-TWRI book 2, chap. E1. 1971. 126 p.
- 2-E2. Borehole geophysics applied to groundwater investigations, by W.S. Keys: USGS-TWRI book 2, chap. E2. 1990. 150 p.

#### Section F. Drilling and Sampling Methods

2-F1. Application of drilling, coring, and sampling techniques to test holes and wells, by Eugene Shuter and W.E. Teasdale: USGS-TWRI book 2, chap. F1. 1989. 97 p.

### Book 3. Applications of Hydraulics

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- 3-A1. General field and office procedures for indirect discharge measurements, by M.A. Benson and Tate Dalrymple: USGS-TWRI book 3, chap. A1. 1967. 30 p.
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- 3-A3. Measurement of peak discharge at culverts by indirect methods, by G.L. Bodhaine: USGS-TWRI book 3, chap. A3. 1968. 60 p.
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- 3-A6. General procedure for gaging streams, by R.W. Carter and Jacob Davidian: USGS-TWRI book 3, chap. A6. 1968. 13 p.

- 3-A7. Stage measurement at gaging stations, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A7. 1968. 28 p.
- 3-A8. Discharge measurements at gaging stations, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A8. 1969. 65 p.
- 3-A9. Measurement of time of travel in streams by dye tracing, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS-TWRI book 3, chap. A9. 1989. 27 p.
- 3-Al0. Discharge ratings at gaging stations, by E.J. Kennedy: USGS-TWRI book 3, chap. Al0. 1984. 59 p.
- 3-All. Measurement of discharge by the movingboat method, by G.F. Smoot and C.E. Novak: USGS-TWRI book 3, chap. All. 1969. 22 p.
- 3-A12. Fluorometric procedures for dye tracing, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS-TWRI book 3, chap. A12. 1986. 34 p.
- 3-A13. Computation of continuous records of streamflow, by E.J. Kennedy: USGS-TWRI book 3, chap. A13. 1983. 53 p.
- 3-A14. Use of flumes in measuring discharge, by F.A. Kilpatrick and V.R. Schneider: USGS-TWRI book 3, chap. A14. 1983. 46 p.
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- 3-A18. Determination of stream reaeration coefficients by use of tracers, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS-TWRI book 3, chap. A18. 1989. 52 p.
- 3-A19. Levels at streamflow gaging stations, by E.J. Kennedy: USGS-TWRI book 3, chap. A19. 1990. 31 p.
- 3-A20. Simulation of soluble waste transport and buildup in surface waters using tracers, by F.A. Kilpatrick: USGS-TWRI book 3, chap. A20. 1993. 38 p.
- 3-A21 Stream-gaging cableways, by C. Russell Wagner: USGS-TWRI book 3, chap. A21. 1995. 56 p.

### Section B. Ground-Water Techniques

3-B1. Aquifer-test design, observation, and data analysis, by R.W. Stallman: USGS-TWRI book 3, chap. B1. 1971. 26 p.

- 3-B2. Introduction to ground-water hydraulics, a programed text for self-instruction, by G.D. Bennett: USGS-TWRI book 3, chap. B2. 1976. 172 p.
- 3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J.E. Reed: USGS-TWRI book 3, chap. B3. 1980. 106 p.
- 3-B4. Regression modeling of ground-water flow, by R.L. Cooley and R.L. Naff: USGS-TWRI book 3, chap. B4. 1990. 232 p.
- 3-B4. Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems, by R.L. Cooley: USGS-TWRI book 3, chap. B4. 1993. 8 p.
- 3-B5. Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems-An introduction, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS-TWRI book 3, chap. B5. 1987. 15 p.
- 3-B6. The principle of superposition and its application in ground-water hydraulics, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS-TWRI book 3, chap. B6. 1987. 28 p.
- 3-B7. Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow, by E.J. Wexler: USGS-TWRI book 3, chap. B7. 1992. 190 p.
- 3-B8. System and boundary conceptualization in ground-water flow simulation, by T.E. Reilly: USGS-TWRI book 3, chap. B8. 2001. 29 p.

### Section C. Sedimentation and Erosion Techniques

- 3-C1. Fluvial sediment concepts, by H.P. Guy: USGS-TWRI book 3, chap. C1. 1970. 55 p.
- 3-C2. Field methods for measurement of fluvial sediment, by T.K. Edwards and G.D. Glysson: USGS-TWRI book 3, chap. C2. 1999. 89 p.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS-TWRI book 3, chap. C3. 1972. 66 p.

# Book 4. Hydrologic Analysis and Interpretation Section A. Statistical Analysis

- 4-A1. Some statistical tools in hydrology, by H.C. Riggs: USGS-TWRI book 4, chap. A1. 1968. 39 p.
- 4-A2. Frequency curves, by H.C. Riggs: USGS-TWRI book 4, chap. A2. 1968. 15 p.

### Section B. Surface Water

4-B1. Low-flow investigations, by H.C. Riggs: USGS-TWRI book 4, chap. B1. 1972. 18 p.

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### Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. Computation of rate and volume of stream depletion by wells, by C.T. Jenkins: USGS-TWRI book 4, chap. D1. 1970. 17 p.

#### Book 5. Laboratory Analysis

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- 5-Al. Methods for determination of inorganic substances in water and fluvial sediments, by M.J. Fishman and L.C. Friedman, editors: USGS-TWRI book 5, chap. Al. 1989. 545 p.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P.R. Barnett and E.C. Mallory, Jr.: USGS-TWRI book 5, chap. A2. 1971. 31 p.
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- 5-A6. Quality assurance practices for the chemical and biological analyses of water and fluvial sediments, by L.C. Friedman and D.E. Erdmann: USGS-TWRI book 5, chap. A6. 1982. 181 p.

### Section C. Sediment Analysis

5-C1. Laboratory theory and methods for sediment analysis, by H.P. Guy: USGS-TWRI book 5, chap. C1. 1969. 58 p.

### Book 6. Modeling Techniques

### Section A. Ground Water

- 6-Al. A modular three-dimensional finitedifference ground-water flow model, by M.G. McDonald and A.W. Harbaugh: USGS-TWRI book 6, chap. Al. 1988. 586 p.
- 6-A2. Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model, by S.A. Leake and D.E. Prudic: USGS-TWRI book 6, chap. A2. 1991. 68 p.

- 6-A3. A modular finite-element model (MODFE)
  for areal and axisymmetric groundwater-flow problems, Part 1: Model
  Description and User's Manual, by L.J.
  Torak: USGS-TWRI book 6, chap. A3.
  1993. 136 p.
- 6-A4. A modular finite-element model (MODFE)
  for areal and axisymmetric groundwater-flow problems, Part 2: Derivation
  of finite-element equations and
  comparisons with analytical solutions,
  by R.L. Cooley: USGS-TWRI book 6, chap.
  A4. 1992. 108 p.
- 6-A5. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details, by L.J. Torak: USGS-TWRI book 6, chap. A5, 1993. 243 p.
- 6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler: USGS-TWRI book 6, chap. A5,1996. 125 p.

### Book 7. Automated Data Processing and Computations

#### Section C. Computer Programs

- 7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS-TWRI book 7, chap. C1. 1976. 116 p.
- 7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L.F. Konikow and J.D. Bredehoeft: USGS-TWRI book 7, chap. C2. 1978. 90 p.
- 7-C3. A model for simulation of flow in singular and interconnected channels, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS-TWRI book 7, chap. C3. 1981. 110 p.

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### Section B. Instruments for Measurement of Discharge

8-B2. Calibration and maintenance of vertical-axis type current meters, by G.F. Smoot and C.E. Novak: USGS-TWRI book 8, chap. B2. 1968. 15 p.

### Book 9. Handbooks for Water-Resources Investigations

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- 9-Al. National Field Manual for the Collection of Water-Quality Data:
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- 9-A2. National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A2. 1998. 94 p.
- 9-A3. National Field Manual for the Collection of Water-Quality Data:
  Cleaning of Equipment for Water Sampling, edited by F.D. Wilde, D.B.
  Radtke, Jacob Gibs, and R.T. Iwatsubo:
  USGS-TWRI book 9, chap. A3. 1998. 75 p.
- 9-A4. National Field Manual for the Collection of Water-Quality Data:
  Collection of Water Samples, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A4. 1999. 156 p.
- 9-A5. National Field Manual for the Collection of Water-Quality Data:
  Processing of Water Samples, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A5. 1999, 149 p.
- 9-A6. National Field Manual for the Collection of Water-Quality Data: Field Measurements, edited by F.D. Wilde and D.B. Radtke: USGS-TWRI book 9, chap. A6. 1998. Variously paginated.
- 9-A7. National Field Manual for the Collection of Water-Quality Data:
  Biological Indicators, edited by D.N.
  Myers and F.D. Wilde: USGS-TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.
- 9-A8. National Field Manual for the Collection of Water-Quality Data:
  Bottom-material samples, by D.B.
  Radtke: USGS-TWRI book 9, chap. A8.
  1998. 48 p.
- 9-A9. National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities, by S.L. Lane and R.G. Fay: USGS-TWRI book 9, chap. A9. 1998. 60 p.



Figure 5. Location of surface-water stations.



Figure 6. Location of water-quality stations.

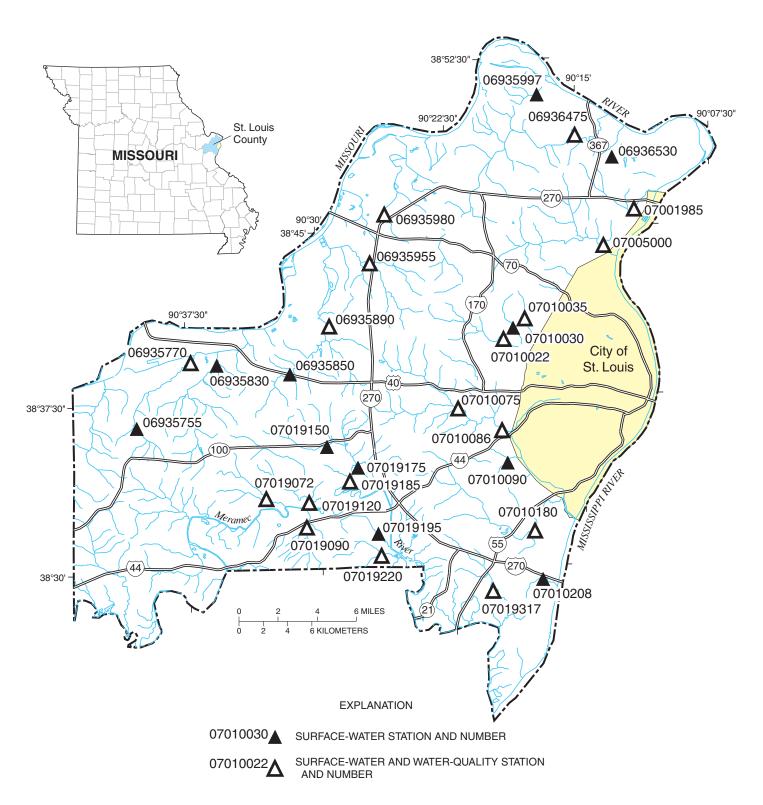


Figure 7. Location of Metropolitan St. Louis Sewer District stations.

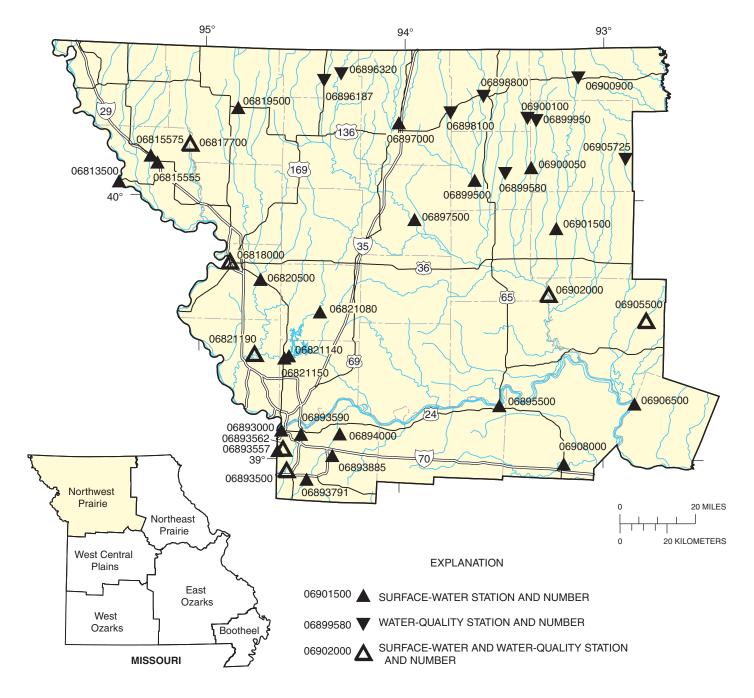


Figure 8. Location of stations in the Northwest Prairie.

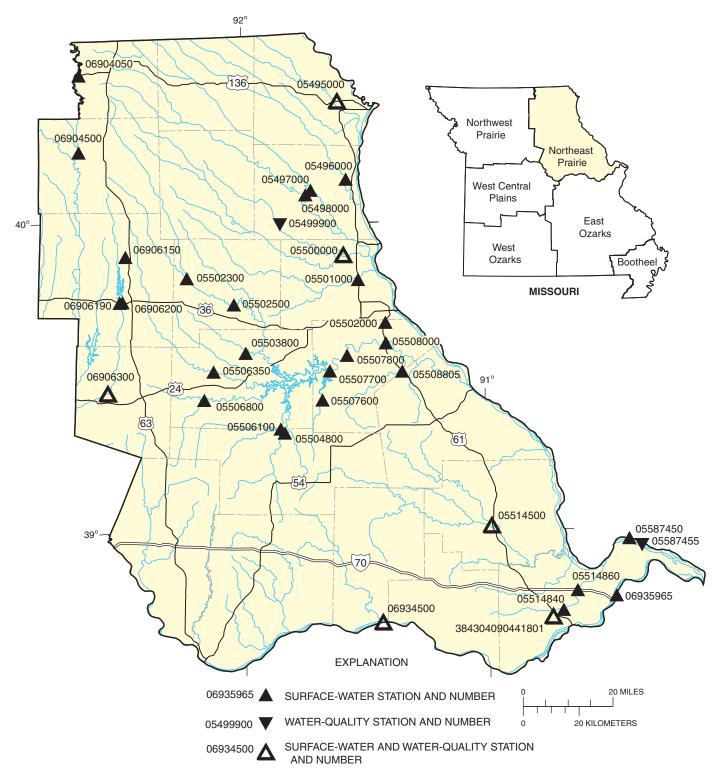


Figure 9. Location of stations in the Northeast Prairie.



### **EXPLANATION**

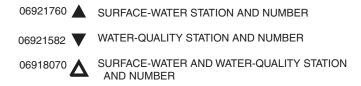


Figure 10. Location of stations in the West Central Plains.

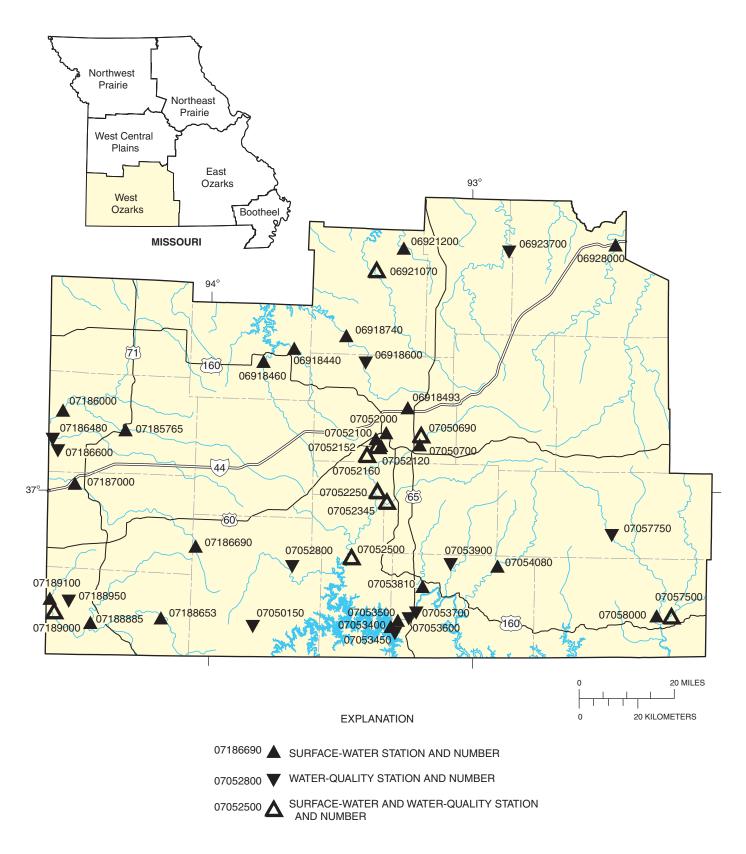
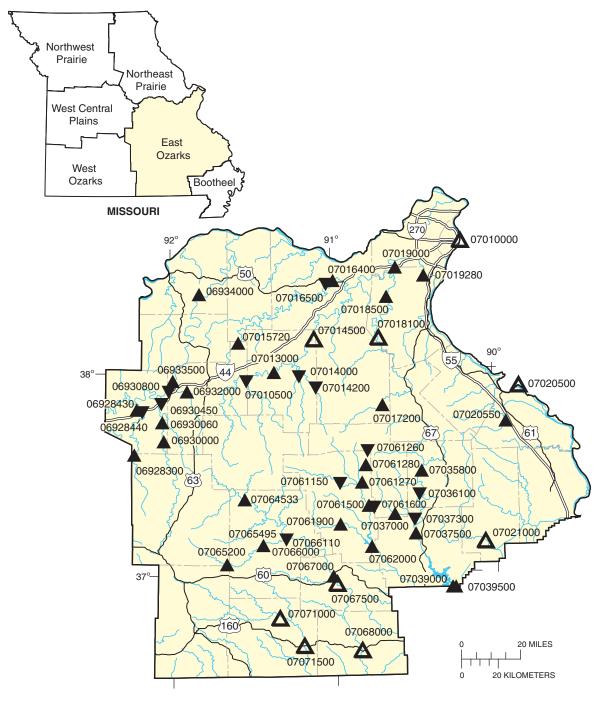


Figure 11. Location of stations in the West Ozarks.



### **EXPLANATION**

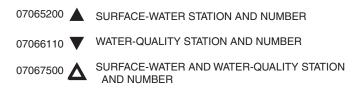


Figure 12. Location of stations in the East Ozarks.

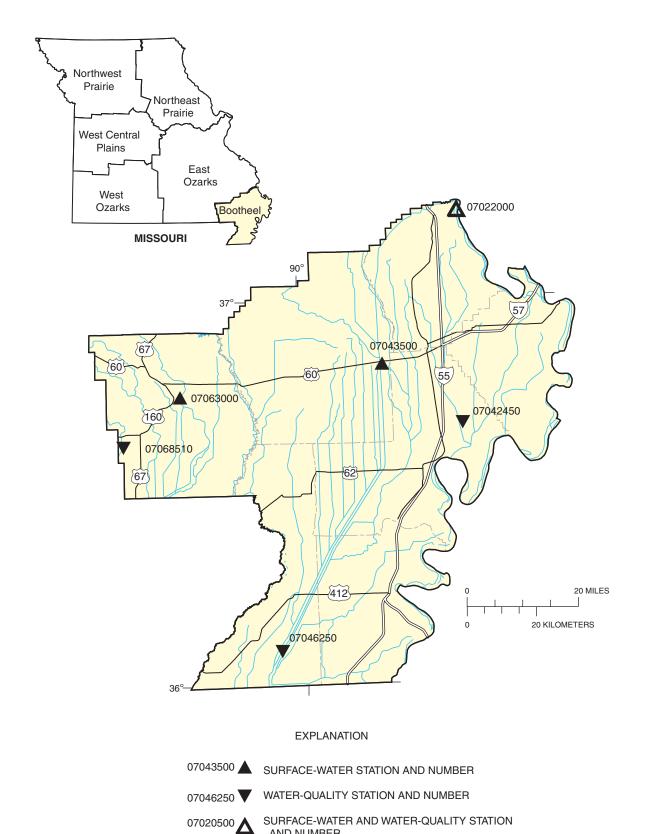


Figure 13. Location of stations in the Bootheel.

AND NUMBER

46 FOX RIVER BASIN

#### 05495000 FOX RIVER AT WAYLAND, MO

LOCATION.--Lat  $40^{\circ}23'33"$ , long  $91^{\circ}35'50"$ , in NW  $^{1}/_{4}$  sec.31, T.65 N., R.6 W., Clark County, Hydrologic Unit 07110001, on left bank 30 ft downstream from bridge on U.S. Highway 136, 0.8 mi west of Wayland, 5.0 mi downstream from Brush Creek, and at mile 15.2.

DRAINAGE AREA. -- 400 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- February 1922 to current year.

REVISED RECORDS.--WSP 785: 1934. Revised daily mean discharges for the period Aug. 9, 1977, to Sept. 30, 1977, and the annual maximum peak for the 1977 water year published in WDR-MO-79-1: 1977.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 501.52 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1929, nonrecording gage at bridge 2.8 mi upstream at different datum; Oct. 1, 1929, to June 11, 1936, nonrecording gage at bridge 90 ft upstream; June 1936 to August 1988 at site 300 ft upstream, at present datum.

REMARKS.--Water-discharge records poor. U.S. Army Corps of Engineers satellite telemeter at station.

	_	DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24 21 19 19 34	44 42 41 38 35	25 23 23 23 25	e23 e20 e19 e18 e17	e180 e150 e120 e80 e60	e45 e45 e50 e50 e48	128 91 75 63 52	327 240 188 150 124	162 e116 92 72 86	33 30 29 26 25	21 14 11 11	6.8 6.7 5.8 5.1 4.8
6 7 8 9 10	34 32 32 26 24	30 29 27 28 25	24 23 23 21 20	e20 e17 e17 e17 e18	e50 e45 e45 e67 e264	57 119 154 e800 e700	50 55 501 1250 1210	156 230 207 825 817	63 51 44 39 35	24 23 22 93 57	19 20 12 11 8.7	4.4 4.1 3.6 3.2 3.1
11 12 13 14 15	32 26 28 53 38	24 23 23 23 23	20 20 25 59 77	e19 e18 e26 e23 23	e314 e324 e282 e209 e170	e380 e224 e158 125 102	437 248 305 329 195	3170 9530 9270 2380 881	1140 2990 3220 2230 1460	564 627 224 120 74	7.8 7.4 6.7 6.6 6.6	2.8 2.4 2.3 2.1 2.0
16 17 18 19 20	94 42 32 29 27	23 23 23 25 26	49 41 35 34 32	e22 e29 e33 e35 e33	e137 e104 e89 84 222	82 68 66 62 60	149 127 112 96 84	572 449 374 301 249	622 384 260 215 150	52 39 33 29 24	17 38 18 127 47	1.7 1.6 1.9 2.4 3.5
21 22 23 24 25	58 2240 1380 1070 448	24 22 21 26 33	28 e46 e139 e96 e68	e30 e28 e30 e29 e27	501 292 156 112 88	58 50 45 45 51	213 432 218 244 320	207 177 169 1160 2320	116 92 79 66 58	25 23 19 17 16	30 22 177 71 26	5.7 5.2 4.0 3.6 4.9
26 27 28 29 30 31	204 124 78 58 49 46	31 29 26 24 25	e53 e44 e39 e34 e29 e25	e26 e24 e25 e25 e45 e200	69 e55 e50  	52 58 61 66 76 159	256 765 3250 1410 532	1740 749 470 297 464 254	51 47 41 36 34	14 13 12 16 20 41	18 13 12 10 11 8.4	5.8 4.6 4.3 3.4 3.1
MEAN MAX MIN IN.	207 2240 19 0.60	27.9 44 21 0.08	39.4 139 20 0.11	30.2 200 17 0.09	154 501 45 0.40	133 800 45 0.38	440 3250 50 1.23	1240 9530 124 3.58	468 3220 34 1.31	76.3 627 12 0.22	26.4 177 6.6 0.08	3.83 6.8 1.6 0.01
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER Y	YEARS 1922 336	- 2002, 438	BY WATER 1	YEAR (WY)	397	242	115	171
MAX (WY) MIN (WY)	1313 1987 0.00 1957	1375 1929 0.01 1957	1330 1983 0.02 1957	1133 1969 0.19 1957	1433 1982 0.42 1957	2264 1979 8.56 1956	2750 1973 2.35 1956	2795 1996 1.39 1956	2223 1947 0.06 1956	3387 1993 0.21 1936	1509 1970 0.02 1936	1999 1970 0.17 1937
SUMMARY	STATISTI	CS	FOR 2	2001 CALEN	DAR YEAR	F	OR 2002 WA	TER YEAR		WATER YE	ARS 1922	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY ME DAILY ME PEAK FLO PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS		464 6990 7.3 7.5 15.74 1290 69 19	Mar 16 Jan 5 Jan 1		238 9530 1.6 2.0 10900 18.35 1.2 8.08 448 42 8.6	May 12 Sep 17 Sep 12 May 13 May 13 Sep 16		266 927 17.6 19900 0.00 0.00 26400 21.71 0.00 9.05 549 38 2.4	Several Several Apr 2	l Years 22 1973 22 1973

e Estimated

### 05495000 FOX RIVER AT WAYLAND, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1972, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 13	1325	ENVIRONM	ENTAL	23	12.7	118	8.2	537	10.9	260	75.1	16.4	4.63
JAN 14	1400	ENVIRONM	ENTAL	e23	15.4	110	7.7	378	. 4				
MAR 11 11	1415 1416	ENVIRONM REPLICAT		374 	12.4	97 	7.8	327	4.2				
MAY 14	0920	ENVIRONM	ENTAL	2020	7.5	73	7.6	230	14.0	99	29.3	6.21	2.20
JUL 09	0910	ENVIRONM	ENTAL	120	5.7	76	8.0	538	29.4				
SEP 03	1520	ENVIRONM	ENTAL	5.5	8.3	112	8.2	407	29.8				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 13	15.6	194	194	237	0	14.0	. 2	72.9	<10	342	<.04	.47	<.05
JAN 14		223	225	274	0				<10		<.04	.34	.20
MAR 11		79	77	93	0				788		.12	3.0	2.33
11 MAY									896		.16	3.1	2.60
14	7.39	72	72	88	0	5.21	.2	22.6	810	185	<.04	2.2	2.29
09 SEP		192	193	235	0				84		<.04	.74	<.05
03		189	188	229	0				20		<.04	.54	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 13	<.008	<.06	<.02	E.05	25	46	K17	15	45	.8	E.02	<.1	<6
JAN 14 MAR	E.004	<.06	<.02	<.06	58	K21	39						
11 11	.163 .143	.09 .10	.03	.90 .91	1360	K1400 	K4440 						
MAY 14	.061	.12	.05	.86	3200	5800	6800	558	8880	1.1	E.03	.3	E4
JUL 09 SEP	<.008	E.03	.02	.09	K520	K865	К765						
03	<.008	<.06	E.01	.07	21	66	200						

48 FOX RIVER BASIN

### 05495000 FOX RIVER AT WAYLAND, MO--Continued (Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (μg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
13	87	E.04	<1	256	<.01	. 4		5
JAN 14								
MAR								
11								
11								
MAY								
14	520	1.23	18	33.4	.06	.5		57
JUL								
09								
SEP								
03								

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

### WYACONDA RIVER BASIN 49

### 05496000 WYACONDA RIVER ABOVE CANTON, MO

LOCATION.--Lat  $40^{\circ}08'32"$ , long  $91^{\circ}33'55"$ , in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.28, T.62 N., R.6 W., Lewis County, Hydrologic Unit 07110001, on left bank on downstream side of bridge on State Highway 16, 1.9 mi upstream from Sugar Creek, 2.5 mi west of Canton, and at mile 16.7.

DRAINAGE AREA.--393 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1932 to September 1972, October 1979 to current year.

REVISED RECORDS. -- WDR MO-92-1: (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 517.41 ft above National Geodetic Vertical Datum of 1929. Prior to May 1, 1939, nonrecording gage 500 ft downstream at datum 2.00 ft lower; Sept. 25, 1975, to Sept. 17, 1979, nonrecording gage at present site and at datum 2.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges and those below 50  ${\rm ft}^3/{\rm s}$ , which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHARG	E, CUBIC	FEET PER		ATER Y	EAR OCTOBER	2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	25 23 21 21 40	47 42 37 33 31	21 20 20 20 20	17 16 16 16 16	108 102 76 60 56	52 51 50 50 51	109 93 80 68 61	444 337 258 190 143	137 109 75 82 82	25 23 22 21 20	27 18 14 13 12	7.4 6.2 6.4 5.4 3.8
6 7 8 9 10	38 37 37 36 34	29 28 28 26 25	20 20 20 19 18	17 17 17 17 18	49 40 37 124 438	60 179 190 856 1530	55 55 336 1570 1100	1490 1720 514 1340 1590	56 34 36 33 31	19 18 18 45 49	11 8.7 8.5 8.1 7.2	4.1 4.1 3.8 2.9 3.9
11 12 13 14 15	30 36 31 87 79	24 22 22 22 22 22	18 19 23 32 78	19 20 22 23 24	498 397 312 256 188	527 299 215 169 124	443 256 196 191 143	3130 8720 12400 9950 3740	216 2570 3090 3680 1770	527 582 210 86 52	6.8 7.2 8.1 7.0 6.0	3.4 3.2 2.7 2.5 3.0
16 17 18 19 20	603 169 76 53 47	22 22 21 21 21	49 40 34 33 31	22 19 17 18 17	156 113 81 68 193	108 100 84 79 75	122 118 103 110 149	1200 738 568 436 341	545 220 163 106 63	38 31 29 28 23	6.3 14 13 49 195	2.7 2.8 3.3 3.3 6.7
21 22 23 24 25	38 1430 1810 1600 603	20 20 21 23 25	28 30 33 29 25	16 18 21 22 21	613 326 170 102 88	70 68 67 66 65	915 1260 432 341 842	269 215 185 818 1940	61 53 45 38 36	20 18 18 16 19	42 35 174 174 47	7.5 8.4 5.1 4.1 3.1
26 27 28 29 30 31	336 172 108 77 70 62	30 30 28 24 22	25 25 21 20 19 18	22 24 23 23 31 164	62 54 53 	67 70 78 105 108 146	428 998 4020 2730 870	2680 879 602 370 560 241	40 41 31 27 26	17 16 14 16 17 42	26 19 15 12 10 9.0	2.7 2.4 2.7 3.0 2.8
MEAN MAX MIN IN.	252 1810 21 0.74	26.3 47 20 0.07	26.7 78 18 0.08	24.3 164 16 0.07	172 613 37 0.46	186 1530 50 0.55	606 4020 55 1.72	1871 12400 143 5.49	450 3680 26 1.28	67.1 582 14 0.20	32.4 195 6.0 0.09	4.11 8.4 2.4 0.01
MEAN MAX (WY) MIN (WY)	139 1677 1987 0.00 1954	164 1463 1986 0.00 1954	DATA FOI 151 1399 1983 0.47 1954	161 946 1946 0.10 1954	362 1529 2001 2.05 1989	410 1346 1985 7.53 1957	438 1809 1983 3.38 1956	471 3196 1996 1.69 1934	376 2594 1947 0.66 1956	281 2792 1993 0.02 1934	128 2242 1970 0.00 1934	156 2510 1986 0.02 1953
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEAR	2	FOR 2002 V	VATER YE	AR	FOR F	PERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME, ANNUAL ME, DAILY MEA DAILY MEA SEVEN-DAY I PEAK STAG ANEOUS LOI RUNOFF (II ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		7390 3.1 Ji 3.1 Ji 3.1 16.17 1170 75	May 16 an 1-3,5-8 Jan 1	3	312 12400 2.4 2.9 12900 27.51 2.4 10.76 602 37 8.1	May Sep Sep May May Sep 26,	27 12 13	269 861 14.2 16500 0.00 0.00 17700 31.33 0.00 9.30 560 31 2.2	Many Many Jun Sep	1993 1989 22 1986 Y Years 30 1933 22 1986 Y Years

### 05497000 NORTH FABIUS RIVER AT MONTICELLO, MO

LOCATION.--Lat  $40^{\circ}06^{\circ}30^{\circ}$ , long  $91^{\circ}42^{\circ}51^{\circ}$ , in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.6, T.61 N., R.7 W., Lewis County, Hydrologic Unit 07110002, on right bank upstream from bridge on State Highway 16, 1.0 mi south of Monticello, and 19.0 mi upstream from Middle Fabius River.

DRAINAGE AREA. -- 452 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 925: 1937-39(M). WSP 1308: 1922(M), 1924-26(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 540.73 ft above National Geodetic Vertical Datum of 1929.
Prior to Nov. 22, 1930, nonrecording gage at site 400 ft downstream at datum 0.03 ft lower; Nov. 22, 1930, to Nov. 28, 1967, nonrecording gage at present site and datum.

REMARKS.--Records fair except for Oct. 1 to April 15, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	32 36 27 28 56	64 64 56 50 45	25 25 23 23 23	17 17 17 17 18	183 e120 e100 e80 e65	e40 39 51 61 54	151 113 98 84 70	440 344 257 199 156	248 196 169 157 139	37 34 33 31 29	24 18 17 16 15	11 11 10 9.2 8.8
6 7 8 9 10	67 49 32 23 22	42 40 39 35 34	22 22 20 19 18	19 19 19 19	e60 58 67 183 417	53 93 85 910 1420	62 55 217 914 1210	1300 1830 615 1740 2020	114 100 91 84 79	30 71 32 77 69	15 14 13 13	8.5 8.4 8.1 7.9 7.3
11 12 13 14 15	22 24 38 100 127	32 32 30 30 30	18 19 25 45 63	16 18 21 24 27	443 287 218 143 94	451 269 199 162 137	444 261 267 266 184	4010 12100 15600 6050 1920	106 726 2160 2860 662	629 302 144 94 67	12 11 11 12 13	7.0 6.6 6.6 6.8 7.1
16 17 18 19 20	609 182 86 56 47	29 27 28 29 27	44 36 30 29 25	28 24 23 24 24	82 64 50 47 157	108 84 70 68 72	151 126 105 435 185	1210 879 690 549 431	305 193 141 112 93	54 45 43 43 39	14 15 14 54 84	7.1 7.2 7.4 7.9
21 22 23 24 25	40 1030 1540 1360 477	27 25 24 31 e40	21 22 23 24 22	23 23 22 20 18	475 266 130 89 68	90 72 67 66 66	1180 1160 420 522 918	365 321 289 771 2290	80 71 64 58 71	32 27 25 26 23	46 42 48 51 33	12 11 11 11 9.3
26 27 28 29 30 31	258 152 110 90 77 69	e36 32 28 27 27	22 21 20 19 18 18	19 20 28 20 28 65	52 e45 e40 	70 79 85 96 98 227	698 1120 5110 1930 706	2000 849 622 980 777 362	67 51 46 43 40	23 21 19 24 30 32	22 18 16 15 13	8.1 7.2 6.6 6.4 6.3
MEAN MAX MIN IN.	222 1540 22 0.57	35.3 64 24 0.09	25.3 63 18 0.06	22.4 65 16 0.06	146 475 40 0.34	176 1420 39 0.45	639 5110 55 1.58	1999 15600 156 5.10	311 2860 40 0.77	70.5 629 19 0.18	23.0 84 11 0.06	8.53 13 6.3 0.02
MEAN MAX (WY) MIN (WY)	183 1496 1987 0.01 1957	193 1347 1929 1.06 1957	169 1521 1983 0.73 1957	193 1679 1974 0.14 1940	359 1346 1937 2.43 1989	456 2336 1979 7.91 1956	527 3171 1973 7.15 1956	474 2941 1996 1.71 1934	422 3148 1947 0.07 1934	295 3320 1993 0.00 1934	129 2149 1970 0.00 1934	179 1966 1970 0.51 1953
SUMMARY	STATISTI	CS	FOR 2	2001 CALEN	IDAR YEAR	F	OR 2002 W	MATER YEAR		WATER YEA	RS 1922 -	2002
LOWEST ANIGHEST LOWEST IN ANNUAL SENSEMBLY AND SENSE	MEAN ANNUAL M ANNUAL M DAILY MEA DAILY MEA SEVEN-DAY PEAK FLO PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		9970 5.4 5.6  13.85 948 86	May 15 Jan 7,9 Jan 1		308 15600 6.3 6.9 17400 29.83 6.2 9.26 673 46 13	May 13 Sep 30 Sep 11 May 13 May 13 Sep 28-30		298 923 18.0 17900 0.00 0.00 20700 33.03 0.00 8.96 574 46 4.2	Apr 23 Many Many Apr 22 Apr 22 Many	Years Years 1973 1973

e Estimated

### 05498000 MIDDLE FABIUS RIVER NEAR MONTICELLO, MO

LOCATION.--Lat  $40^{\circ}05'37"$ , long  $91^{\circ}44'08"$ , in SE  $\frac{1}{4}$  sec.12, T.61 N., R.8 W., Lewis County, Hydrologic Unit 07110002, on left bank on downstream end of bridge pier on State Highway 16, 2.5 mi southwest of Monticello, 8.0 mi downstream from Radish Branch, and 17 mi upstream from mouth.

DRAINAGE AREA. -- 393 mi<sup>2</sup>.

PERIOD OF RECORD. -- July 1945 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 540.46 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 4, 1967, nonrecording gage at present site and datum.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 17, 1945, reached a stage of 23.3 ft, from floodmarks.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13 11 9.8 9.7 45	29 26 25 25 23	17 17 16 16 15	11 11 11 11	222 e85 e60 e101 e65	48 e45 e45 e48 50	153 104 88 77 64	412 343 234 171 131	170 120 92 84 68	20 18 16 16 15	13 11 9.1 7.8 7.1	5.4 4.7 3.5 3.0 2.5
6 7 8 9 10	32 26 22 16 14	21 19 18 16 16	15 15 15 14 14	12 11 11 12 13	e45 e40 e45 109 241	75 125 208 536 1510	54 54 211 690 850	1280 2650 2120 1520 1760	59 51 46 42 38	17 28 312 335 132	6.4 5.8 5.5 5.1 4.7	2.3 2.4 2.3 2.1 2.1
11 12 13 14 15	12 13 40 61 141	16 16 15 15	14 15 19 19 39	13 14 14 15 16	526 450 338 248 212	563 286 219 176 147	423 234 161 185 144	3560 9310 16500 13600 5630	68 239 1010 2630 730	307 421 223 121 72	4.7 4.6 4.5 4.2 4.0	2.0 1.8 1.8 1.7
16 17 18 19 20	461 203 91 50 33	15 15 15 16 15	57 41 32 29 26	16 15 15 16 14	186 161 128 108 203	122 101 85 78 78	109 86 69 195 246	822 485 423 329 239	270 168 124 100 82	46 33 28 26 19	4.1 4.0 4.3 8.6	1.7 1.8 1.9 1.8 3.9
21 22 23 24 25	25 20 394 915 365	15 15 16 20 21	24 24 23 19 18	15 15 16 16 15	639 445 240 168 132	70 63 56 52 53	1020 1710 677 931 1470	181 146 125 337 2300	68 58 50 43 47	17 18 14 12 11	21 20 51 23 34	3.4 4.6 3.7 3.2 2.7
26 27 28 29 30 31	177 105 68 49 38 32	20 18 19 19 18	18 18 17 15 13	16 18 17 17 29 195	102 77 63 	56 58 67 82 98 166	567 1300 4110 3210 708	2460 881 559 379 574 292	55 33 28 25 22	11 11 9.6 13 12	30 16 11 8.8 7.1 6.0	2.4 2.0 1.8 1.7
MEAN MAX MIN IN.	113 915 9.7 0.33	18.4 29 15 0.05	20.9 57 13 0.06	20.4 195 11 0.06	194 639 40 0.51	173 1510 45 0.51	663 4110 54 1.88	2250 16500 125 6.60 YEAR (WY)	221 2630 22 0.63	75.7 421 9.6 0.22	11.8 51 4.0 0.03	2.59 5.4 1.7 0.01
MEAN MAX (WY) MIN (WY)	160 1368 1987 0.00 1954	174 1481 1986 0.00 1954	157 1418 1983 0.11 1957	201 1179 1969 0.31 1957	338 1359 1969 1.23 1957	451 1521 1979 6.32 1957	502 2719 1973 3.83 1956	496 2776 1996 1.48 1989	316 2582 1947 1.04 1956	301 3038 1993 0.78 1988	114 1758 1970 0.56 1988	150 1815 1970 0.09 1953
SUMMAR	Y STATISTI	CS	FOR	2001 CAL	ENDAR YEA	AR	FOR 2002	WATER YEA	R	WATER YE	EARS 1946	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN ANNUAL 10 PER 50 PER	MEAN T ANNUAL M ANNUAL M T DAILY MEA DAILY MEA SEVEN-DAY M PEAK FIL M PEAK STA TANEOUS LO RUNOFF (1) CENT EXCER CENT EXCER	EAN EAN AN MINIMUM AGE DW FLOW ENCHES) EDS		375 6950 3.2 3.5 12.94 757 47 9.8	May I Jan I Jan	11	316  16500 1.7 S 1.8 17600 26.16 1.2 10.90 530 32 4.7	May 1 ep 14-16,3 Sep 1 May 1 May 1 Sep 1	0 2 3 3	279 837 18.7 16500 0.00 0.00 17700 27.14 0.00 9.66 581 39 2.8	Several Several Apr 2	l Years 23 1973 23 1973

e Estimated

### 05499900 TROUBLESOME CREEK NEAR EWING, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°59'52", long 91°50'37", in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec.13, T.60 N., R.9 W., Lewis County, Hydrologic Unit 07110003, located approximately 2.0 mi west of Ewing on U.S. Highway 156.

DRAINAGE AREA.--2.88 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 13	1530	ENVIRONM	ENTAL	.96	3.9	35	7.1	321	9.5	130	38.7	9.19	8.29
JAN 14	1550	ENVIRONM	ENTAL	e.10	10.2	74	6.9	233	1.1				
MAR 11	1725	ENVIRONM	ENTAL	1.0	12.1	97	7.4	290	4.8				
MAY 14	1350	ENVIRONM	ENTAL	1090	7.0	72	7.1	124	15.7	49	14.8	2.85	4.25
JUL 09	1115	ENVIRONM	ENTAL	7.0	4.2	53	7.4	383	26.1				
SEP 03	1320	ENVIRONM	ENTAL	.12	4.9	59	7.2	1160	24.1				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV							_						
13 JAN	11.3	118	120	146	0	16.3	.3	19.8	24	208	<.04	.94	<.05
14 MAR		120	120	147	0				16		.07	.99	<.05
11 MAY		69	69	84	0				52		.06	1.6	1.75
14 JUL	3.65	41	39	48	0	5.46	.2	9.0	197	139	<.04	1.6	1.75
09 SEP		145	144	176	0				45		<.04	.73	.08
03		100	98	120	0				15		.06	1.8	45.4
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV	. 000	0.0	0.2	1.4	100	100	0.0	66	0.07	2.0	. 04	. 1	.6
13 JAN	<.008	.06	.03	.14	100	180	92	66	227	2.0	<.04	<.1	<6
14 MAR	<.008	E.03	<.02	E.05	49	K4	33						
11 MAY	.030	.08	.05	. 25	860	K1360	860						
JUL	.075	.22	.16	.42	K1300	2300	2300	729	3720	1.2	E.02	<.1	<6
09 SEP	E.005	<.06	E.01	.07	750	K1380	1300						
03	.263	E.03	<.02	.06	100	104	288						

### 05499900 TROUBLESOME CREEK NEAR EWING, MO--Continued (Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
13	571	.17	<1	318	E.01	E.2		10
JAN								
14								
MAR								
11								
MAY								
14	412	1.24	6	54.8	.02	E.3		17
JUL								
09								
SEP								
03								

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than value shown.

#### 05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO

LOCATION.--Lat 39°53'49", long 91°34'49", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.21, T.59 N., R.6 W., Marion County, Hydrologic Unit 07110003, on right bank at downstream side of county highway bridge, 4.5 mi southwest of Taylor, 5.0 mi downstream from Grassy Creek, and 5.3 mi upstream from confluence with North Fabius River.

DRAINAGE AREA.--620 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1934 to current year. Prior to December 1934 monthly discharge only published in WSP 1308.

REVISED RECORDS. -- WSP 825: 1936.

GAGE.--Water-stage recorder. Datum of gage is 482.91 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to May 14, 1936, nonrecording gage at bridge 4.0 mi downstream at datum 21.94 ft lower; May 14, 1936, to Dec. 2, 1940, nonrecording gage at present site and datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

REMARKS.--Water-discharge records fair except for the period Dec. 25 to Jan. 1, which is poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1928 reached a stage of 18.49 ft, from floodmarks, at present site and datum.

		DISCHAR	GE, COBIC	, reel fer		MEAN VA		.K 2001 10 i	JEF LEMDE	K 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	23	15	e11	1210	67	56	849	332	23	8.6	9.0
2	8.6	20	14	10	578	70	55	702	236	21	7.7	7.4
3	6.5	17	14	10	340	64	51	527	186	20	7.2	6.4
4	6.2	15	14	11	262	56	47	347	151	20	7.7	5.8
5	21	15	14	12	172	59	45	262	127	18	8.8	5.1
6	110	14	14	12	188	70	44	2290	127	20	7.8	4.7
7	99	15	13	12	147	138	45	5430	96	233	7.5	4.3
8	49	14	12	12	98	174	136	4310	80	58	6.6	3.8
9	32	14	12	12	78	331	800	7080	70	31	5.7	3.2
10	35	12	12	12	76	620	722	4620	71	135	5.0	2.7
11	35	12	13	13	139	814	553	6720	138	80	4.5	2.0
12	34	12	14	13	398	414	348	9440	296	56	4.2	2.0
13	31	12	17	14	304	239	230	9800	1050	45	4.1	3.1
14	31	12	16	14	223	178	171	13900	1950	64	4.1	4.4
15	149	12	15	13	147	144	138	15400	1170	47	3.8	4.1
16	344	12	18	12	116	118	116	9080	466	38	4.1	3.6
17	450	12	18	11	104	99	101	2270	249	31	5.0	3.4
18	267	11	17	11	90	87	91	1270	165	40	4.7	3.2
19	144	11	16	11	84	79	88	1010	126	26	7.1	3.0
20	84	12	15	11	176	73	78	753	99	28	8.8	2.9
21	56	11	16	11	313	68	349	538	80	20	7.4	3.1
22	43	11	23	11	378	64	969	404	64	17	6.4	3.1
23	34	12	21	11	330	58	1030	309	54	17	39	2.5
24	28	24	19	11	207	55	1960	263	47	15	54	2.2
25	22	20	e18	12	143	54	4040	1290	40	12	67	2.2
26 27 28 29 30 31	18 15 16 39 32 27	18 20 18 16 17	e16 e15 e14 e13 e12 e11	12 11 11 11 51 1270	110 87 71 	51 49 48 49 50 51	2460 2720 4990 4600 2630	3430 1930 1110 1360 1610 587	34 32 28 26 23	13 12 10 11 10 9.0	34 21 16 12 11	2.2 2.5 2.7 3.2 3.1
MEAN	73.5	14.8	15.2	53.5	235	145	989	3513	254	38.1		3.70
MAX	450	24	23	1270	1210	814	4990	15400	1950	233		9.0
MIN	6.2	11	11	10	71	48	44	262	23	9.0		2.0
IN.	0.14	0.03	0.03	0.10	0.39	0.27	1.78	6.53	0.46	0.07		0.01
MEAN MAX (WY) MIN (WY)	261 2690 1987 0.00 1957	290 3103 1986 0.00 1957	250 2137 1983 1.52 1964	298 2000 1965 2.12 1954	537 2340 1982 4.78 1989	- 2002, 700 2659 1973 15.0 1956	774 3989 1973 13.4 1989	786 4078 1995 7.56 1989	500 3891 1947 5.68 1977	379 3647 1993 0.71 1988	167 2335 1970 0.00 1936	191 2841 1970 0.39 1953
SUMMARY	STATISTI	CS	FOR 2	2001 CALEN	NDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	ARS 1935	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANTI ANNUAL 10 PERC 50 PERC	CANNUAL ME ANNUAL ME	CAN CAN LN MINIMUM OW LGE OW FLOW CNCHES) CDS			May 15 Jan 13 Jan 7		449 15400 2.0 2.5 17600 17.39 1.9 Sep 9.83 806 31 5.8	May 15 Sep 11,12 Sep 22 May 14 May 14 11-13,26		420 1147 27.4 18800 0.00 0.00 19700 0.00 9.21 975 60 4.3	Jun Several Several Jun Jun Several	1993 1989 8 1947 1 Years 1 Years 8 1947 8 1947 1 Years

e Estimated

# FABIUS RIVER BASIN 55

# 05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued (Ambient Water-Quality Monitoring Network)

# WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1972 to August 1973, October 1979 to October 1989, November 1992 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 15	1220	ENVIRONMENT	ral.	132	8.4	80	7.7	358	12.4				
NOV 14	0820	ENVIRONMENT	ral.	12	9.4	87	8.1	436	10.6	200	59.1	11.6	6.94
DEC 06	1150	ENVIRONMENT	ral.	14	10.9	99	8.0	454	10.2				
JAN 15 15	0845 0850	ENVIRONMENT BLANK	PAL	13	14.9	105	8.1	316 	.5	260	75.1 .10	16.6 .021	3.55 .18
FEB 11	1300	ENVIRONMENT	TAL.	101	13.3	100	7.9	387	3.1				
MAR 12	0840	ENVIRONMENT	PAL .	449	12.4	98	7.7	327	4.6				
APR 03	0820	ENVIRONMENT	PAL .	51	11.9	98	8.7	462	6.9				
MAY 14	1630	ENVIRONMENT	TAL	15300	7.1	75	7.4	100	17.1	43	13.5	2.24	1.53
JUN 03	1259	BLANK						. ==					
03 JUL	1300	ENVIRONMENT	TAL	131	7.4	96	8.0	281	27.7				
09 AUG	1325	ENVIRONMENT	PAL .	24	8.2	113	8.1	316	31.0	130	40.9	7.75	4.59
14 SEP	0815	ENVIRONMENT	PAL .	4	5.0	59	7.8	399	22.7				
04	0900	ENVIRONMENT	PAL .	5.8	5.3	62	7.8	392	22.9				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	WATER W UNFLTRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> )	ANC NATER NFLTRD IT FIELD ng/L as CaCO <sub>3</sub> )	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 15	DIS- SOLVED (mg/L as Na)	WATER W UNFLTRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> ) ( 000410) (0	NATER NFLTRD IT FIELD ng/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 15 NOV 14	DIS- SOLVED (mg/L as Na) (00930)	WATER W UNFITRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> ) ( 00410) (0	WATER WELTRD IT FIELD mg/L as CaCO <sub>3</sub> ) 00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 15 NOV 14 DEC 06	DIS- SOLVED (mg/L as Na) (00930)	WATER W UNFITRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> ) ( 00410) (0  119  164	WATER WFLTRD IT FIELD ag/L as CaCO <sub>3</sub> ) 00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, $NO_2+NO_3$ DIS-SOLVED (mg/L as N) (00631)
OCT 15 NOV 14 DEC 06 JAN 15	DIS- SOLVED (mg/L as Na) (00930)	WATER WINFITRD UNFETF FIELD F (mg/L as (m CaCO <sub>3</sub> ) (00410) (0	WATER WIFLTRD IT PIELD RIG/L as CaCO <sub>3</sub> ) 00419)	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  13 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .61	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .35
OCT 15 NOV 14 DEC 06 JAN 15 15	DIS- SOLVED (mg/L as Na) (00930)	WATER W UNFITRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> ) ( 00410) (0  119 164 169 185	WATER UFLITED IT FIELD USG/L as CaCO <sub>3</sub> ) 00419)  120  165  170  186	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  147  202  207  227	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  17.9	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 43.6 72.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  13 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .61 .60 .36	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .35 <.05 <.05
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR	DIS- SOLVED (mg/L as Na) (00930)	WATER W UNFITRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> ) ( 00410) (0  119 164 169 185	WATER UPLITED	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  147 202 207 227	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  17.9  16.1	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .2 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  43.6  72.2 2.6	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  13 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  270  318 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTTAL (mg/L as N) (00625)  .61 .60 .36 .35 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .35 <.05 <.05 <.05
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03	DIS- SOLVED (mg/L as Na) (00930)	WATER W UNFLTRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> ) (00410) (0  119  164  169  185  105  76	WATER WFLITRD IT FIELD MG/L as CaCO <sub>3</sub> ) 00419)  120 165 170 186 104	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 147 202 207 227  127	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> )(00447)  0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  17.9  16.1	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .2 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  43.6  72.2 2.6	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  13 <10 <10 <10 <10 10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  270  318 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 E.14	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .61 .60 .36 .35 <.10 .90	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .35 <.05 <.05 <.05 <.05 E3.44
OCT 15 NOV 14 DEC 06 JAN 15 15 15 45 MAR 12 APR 03 MAY 14 JUN	DIS- SOLVED (mg/L as Na) (00930)  15.4 18.2 .29 4.07	WATER W UNFITRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> ) (00410) (0  119  164  169  185  105  76  136  37	WATER WATER FILTRD IT FIELD MS/L as CaCO <sub>3</sub> ) 10419)  120  165  170  186   104  73  135  35	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  147 202 207 227 127 89 152 42	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> )(00447)  0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  17.9  16.1   2.38	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .2 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  43.6  72.2 2.6   4.9	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  13 <10 <10 <10 <10 10 260 12 316	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  270  318 <10 	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .61 .60 .36 .35 <.10 .90 2.0 .63	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .35 <.05 <.05 <.05 <.05 <.05 <.81
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03 MAY 14 JUN 03	DIS- SOLVED (mg/L as Na) (00930)	WATER WINFITRD UNFITTED UNFITTED FROM CACO3) (00410) (0  119 164 169 185 105 76 136	WATER WELLTRD IT TELLD 11 SCACO3 100419 120 165 170 186 104 73 135	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  147 202 207 227 127 89 152	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  17.9  16.1 	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .2 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  43.6  72.2 2.6	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  13 <10 <10 <10 <10 10 260 12	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  270  318 <10 	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .61 .60 .36 .35 <.10 .90 2.0 .63	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .35 <.05 <.05 <.05 <.05 1.24 <.05
OCT 15 NOV 14 DEC 06 JAN 15 FEB 11 MAR 12 APR 03 MAY 14 JUN 03 03 03 03 03 099	DIS- SOLVED (mg/L as Na) (00930)  15.4 18.2 .29 4.07	WATER W UNFITRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> ) (00410) (0  119  164  169  185  105  76  136  37 101	WATER WATER WELLTRD IT TPIELD MG/L as CaCO <sub>3</sub> ) 100419)  120  165  170  186   104  73  135	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  147 202 207 227 127 89 152 42	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  17.9 16.1  2.38	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .2 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  43.6  72.2 2.6   4.9	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  13 <10 <10 <10 <10 <10 <10 10 260 12 316	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  270  318 <10 	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .61 .60 .36 .35 <.10 .90 2.0 .63 2.2	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .35 <.05 <.05 <.05 <.05 <.05 <.05 .81
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03 MAY 14 JUN 03	DIS- SOLVED (mg/L as Na) (00930)  15.4 18.2 .29 4.07	WATER W UNFLTRD UN FET FIELD F (mg/L as (m CaCO <sub>3</sub> ) (00410) (0  119 164 169 185 105 76 136 37 101 118	WATER WATER FILTRO IT FIELD MS/L as CaCO3) 100419)  120 165 170 186 104 73 135 35 99	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  147 202 207 227 127 89 152 42 121	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  17.9  16.1   2.38	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .2 <.1   .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  43.6  72.2 2.6   4.9	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  13 <10 <10 <10 <10 10 260 12 316 42	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  270  318 <10  	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .61 .60 .36 .35 <.10 .90 2.0 .63 2.280	GEN, NO2+NO3 DIS-SOLVED (mg/L as N) (00631)  .35 <.05 <.05 <.05 <.05 <.05 <.05 .05  .05

56 FABIUS RIVER BASIN

# 05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 15	.010	.08	.05	.10	450	K830	530						
NOV 14	<.008	<.06	<.02	E.04	K11	K17	K26	46	51	1.0	<.04	<.1	<6
DEC 06	<.008	<.06	<.02	<.06	K11	21	44						
JAN 15 15	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	<1 	K1 	K22 	5 7	15 9	.7	<.04 <.04	<.1 <.1	<6 <6
FEB 11	E.036	E.05	E.03	.08	К6	K15	58						
MAR 12 APR	.095	.09	.02	.43	450	620	700						
03 MAY	<.008	<.06	<.02	E.05	К4	К9	36						
14 JUN	.085	.20	.14	.70	1400	2800	2600	951	6330	1.3	.04	.2	E4
03 03	.071	.08	 E.01	 .16	 K49	200	 170						
JUL 09	.015	E.04	.03	.14	K520	K780	110	6	721	1.8	<.04	<.1	<6
AUG 14	<.008	<.06	<.02	.06	41	52	125						
SEP 04	<.008	E.03	<.02	E.04	41	38	67						
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
OCT	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L)	ZINE, WATER, DISS, REC (µg/L)
OCT 15 NOV	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
ОСТ 15	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 15 NOV 14 DEC 06 JAN 15	DIS- SOLVED (µg/L as Fe) (01046)  116  102	DIS- SOLVED (µg/L as Pb) (01049)  E.07  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  36.4  62.4	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANTILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660) <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 15 NOV 14 DEC 06 JAN 15 15	DIS- SOLVED (µg/L as Fe) (01046)  116  102 <10	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  36.4  62.4 <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.3  .6 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 6	ETHYL ANTLINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 	BHC DIS- SOLVED (µg/L) (34253) <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .160
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR	DIS- SOLVED (µg/L as Fe) (01046)  116  102 <10	DIS- SOLVED (µg/L as Pb) (01049)  E.07  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  36.4  62.4	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  6 2	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004  	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 	BHC DIS- SOLVED (µg/L) (34253)  <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .160
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12	DIS- SOLVED (µg/L as Fe) (01046)  116  102 <10	DIS- SOLVED (µg/L as Pb) (01049)  E.07  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  36.4  62.4 <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.3  .6 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  6 2	ETHYL ANILINE 0.7 µ GF, REC (µg/L) (82660)  <.002 <.006	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004   <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .160   .136
OCT	DIS- SOLVED (µg/L as Fe) (01046)  116  102 <10 	DIS- SOLVED (µg/L as Pb) (01049)  E.07  <.08 E.07	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  36.4  62.4 <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.3  .6 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  6 2	ETHYL ANTLINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 <.006 <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004	BHC DIS- SOLVED (µg/L) (34253) <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .160    .136
OCT 15 NOV 14 DEC 06 JAN 15 15 15 45 MAR 12 APR 03 MAY 14 JUN	DIS- SOLVED (µg/L as Fe) (01046)  116 102 <10 699	DIS- SOLVED (µg/L as Pb) (01049)  E.07  <.08 E.07   2.12	TOTAL RECOV- REABLE (µg/L as Pb) (01051)  <1 <1 <1 <1 13	NESE, DIS- SOLVED (µg/L as Mn) (01056)  36.4  62.4 <2.0	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.010101	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.3  .6 <.3   E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  6 2 33	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.002 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006 <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 <.002	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .160   .136 .177 3.93
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03 MAY 14 JUN 03	DIS- SOLVED (µg/L as Fe) (01046)  116  102 <10 	DIS- SOLVED (µg/L as Pb) (01049)  E.07  <.08 E.07	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  36.4  62.4 <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.3  .6 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  6 2	ETHYL ANTLINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 <.006 <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004	BHC DIS- SOLVED (µg/L) (34253) <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .160    .136
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03 MAY 14 JUN 03 03	DIS- SOLVED (µg/L as Fe) (01046)  116  102 <10   699	DIS- SOLVED (µg/L as Pb) (01049)  E.07  <.08 E.07   2.12	TOTAL RECOV- REABLE (µg/L as Pb) (01051)  <1 <1 <11 3 13	NESE, DIS- SOLVED (µg/L as Mn) (01056)  36.4  62.4 <2.0	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.010101	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.3  .6 <.3   E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  6 2 333	ETHYL ANTLINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.002 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006 <.004 .150 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 <.002 .041 <.004	BHC DTS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)160136 .177 3.93 <.007
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03 APR 14 JUN 03 03 JUL	DIS- SOLVED (µg/L as Fe) (01046)  116 102 <10 699	DIS- SOLVED (µg/L as Pb) (01049)  E.07  <.08 E.07   2.12	TOTAL RECOV- REABLE (µg/L as Pb) (01051)  <1 <11 13 13	NESE, DIS- SOLVED (μg/L as Mn) (01056)  36.4  62.4 <2.0   55.8	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.010101	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.3  .6 <.3   E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  6 2 33	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.002 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006 <.004 .150 <.006 .308	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 <.002 .041 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 160136 .177 3.93 <.007

# 05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)
OCT 15													
NOV 14	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.068	<.005	<.005	<.02	<.002	<.009
DEC 06								E.000					
JAN 15													
15 FEB													
11 MAR													
12 APR	<.010	<.002	<.041	<.020	<.005	E.015	<.003	E.048	<.005	<.005	<.02	<.002	<.009
03 MAY	<.010	<.002	<.041	<.020	<.005	E.016	<.003	E.066	<.005	<.005	<.02	<.002	<.009
14 JUN	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.392	E.003	<.005	<.02	<.002	<.009
03 03	<.010 <.010	<.002 <.002	<.041 <.041	<.020 <.020	<.005 <.005	<.018 <.018	<.003 <.003	<.006 E.449	<.005 <.005	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009
JUL 09	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.536	<.005	<.005	<.02	<.002	<.009
AUG 14													
SEP 04													
DATE	ETHO- PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
OCT	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L)
OCT 15	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLITRD 0.7 μ GF, REC (μg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLIRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)
OCT 15 NOV 14 DEC	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)
OCT 15 NOV 14 DEC 06 JAN	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLITRD 0.7 μ GF, REC (μg/L) (82666) <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)032	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 μ GF, REC (μg/L) (82671)	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 15 NOV 14 DEC 06 JAN 15	PROP WATER FLITD 0.7 μ GF, REC (μg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341)  <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666) <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671) <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 15 NOV 14 DEC 06 JAN 15 15	PROP WATER FLITED 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415) 032	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLITRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12	PROP WATER FLITRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)  <.003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 032	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003 	THION, DIS- SOLVED (µg/L) (39542)  <.007 
OCT 15 NOV 14 DEC 06 JAN 15 15 15 FEB 11 MAR 12 APR 03	PROP WATER FLITRD 0.7 μ GF, REC (μg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095)  <.003	DIS- SOLVED (µg/L) (39341)  <.004  	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 032	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653) <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03 MAY	PROP WATER FLITED 0.7 µ GF, REC (µg/L) (82672)  <.005  <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004    <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050    <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006    <.100	LACHLOR WATER DISSOLV (µg/L) (39415) 032035	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006    <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002	AMIDE WATER FLITRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03 MAY 14 JUN 03	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <-005 <-005 <-005 <-005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050   <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006   <.100 <.100	LACHLOR WATER DISSOLV (µg/L) (39415) 032035 .018	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006    <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684) <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.007
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03 MAY 14 JUN 03 03 03 JUL 09	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <-005 <-005 <-005 <-005 <-005 <-005 <-005 <-005 <-005 <-005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050  <.050 <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006   <.100 <.100 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 032035 .018 1.13 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 <.006 .011	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002  <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684) <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.007 <.010 <.010
OCT 15 NOV 14 DEC 06 JAN 15 15 FEB 11 MAR 12 APR 03 MAY 14 JUN 03	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <-005 <-005 <-005 <-005 <-005 <-005 <-005 <-005 <-005 <-005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004    <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027  <.027  <.027  <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050    <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006  <.100 <.100 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 032035 .018 1.13 <.013 2.03	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 <.006 .011 <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.007 <.010 <.010 <.010

58 FABIUS RIVER BASIN

# 05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 μ GF, REC (μg/L) (82675)
OCT 15													
NOV													
14 DEC	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.038	<.02	<.034	<.02
06													
JAN													
15													
15													
FEB 11													
MAR													
12 APR	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.037	E.01	<.034	<.02
03	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.026	E.01	<.034	<.02
MAY													
14	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	1.15	<.02	<.034	<.02
JUN													
03	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
03	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	2.07	E.01	<.034	<.02
JUL	. 004	. 000	. 006	. 011	.,	. 004	. 010	. 011	. 00	1.45	. 00	. 024	. 00
09 AUG	<.004	<.022	<.006	<.011	M	<.004	<.010	<.011	<.02	.145	<.02	<.034	<.02
14													
SEP													
04													

DATE	$(\mu g/L)$	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	0.7 μ GF, REC (μg/L)
OCT			
15 NOV			
14	<.005	<.002	<.009
DEC 06			
JAN			
15 15			
FEB			
11 MAR			
12	<.005	<.002	E.004
APR			
03 MAY	<.005	<.002	<.009
14	<.005	<.002	<.009
JUN	. 005	. 000	. 000
03 03	<.005 <.005	<.002 <.002	<.009 <.009
JUL	<.005	<.002	<.009
09	<.005	<.002	<.009
AUG			
14			
SEP			
04			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

# NORTH RIVER BASIN 59

# 05501000 NORTH RIVER AT PALMYRA, MO

LOCATION.--Lat 39°49'06", long 91°31'13", in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.13, T.58 N., R.6 W., Marion County, Hydrologic Unit 07110004, on right bank 100 ft upstream from City Waterworks Dam, 1,000 ft upstream from upstream bridge on dual U.S. Highways 24 and 61, 0.5 mi north of Palmyra, and 7.0 mi upstream from mouth.

DRAINAGE AREA.--373 mi<sup>2</sup>.

PERIOD OF RECORD. -- December 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 464.81 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to Oct. 1, 1945, nonrecording gage at bridge 1,000 ft downstream; Oct. 1, 1945, to June 22, 1951, nonrecording gage at present site and datum.

REMARKS.--Records poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage prior to 1934, about 28.0 ft, from floodmarks, date unknown, at site 1,000 ft downstream, present datum.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.0 4.5 3.9 3.5 157	14 41 44 38 e28	18 17 16 14 12	e12 e12 9.2 13 21	1420 590 374 255 172	e60 e58 e56 e49 e51	45 43 39 34 33	324 241 180 166 123	174 133 110 93 82	21 18 19 20 17	8.1 7.5 6.6 6.0 5.4	5.1 4.5 3.7 3.1 2.8
6 7 8 9 10	e209 e184 e76 e48 e43	e21 e19 e18 e17 e15	11 10 10 9.8 9.2	28 15 10 11	158 145 109 92 87	100 201 159 536 441	33 37 184 1000 475	2890 6340 2360 16000 3040	74 68 61 54 54	15 25 65 56 37	4.8 4.3 3.9 3.7 3.7	2.5 2.2 2.2 2.1 9.5
11 12 13 14 15	e36 33 53 142 97	e15 e16 e16 e16 e16	8.8 10 17 26 27	11 10 11 13 17	79 71 87 81 67	293 196 146 121 107	263 256 192 142 119	10400 12900 5490 2440 1030	86 246 530 545 245	31 25 23 20 21	3.8 3.7 3.7 3.7 3.7	7.7 3.1 2.4 2.0 2.0
16 17 18 19 20	159 180 95 54 36	e16 e16 e15 e15 e16	28 25 22 21 19	16 15 14 15	58 51 46 48 188	94 84 76 75 75	102 88 77 70 67	635 572 619 443 357	171 124 100 180 92	17 16 15 15 14	4.4 4.7 3.9 6.3 5.8	2.0 1.9 1.9 1.7 1.5
21 22 23 24 25	25 19 14 13 12	e15 e14 31 110 70	18 19 e25 e22 e20	14 13 13 13 13	360 194 135 104 84	69 60 55 53	1050 757 437 748 1750	302 266 238 258 1100	66 53 45 39 37	14 86 143 48 23	6.0 7.2 10 236 96	1.6 1.5 1.4 1.3 1.2
26 27 28 29 30 31	11 9.6 8.7 7.5 6.6 6.4	43 29 19 16 16	e18 e17 e16 e14 e14 e12	13 14 14 14 276 3890	72 64 e62 	55 51 51 51 52 49	601 3600 4050 1320 673	1060 879 489 294 271 279	36 32 26 23 22	19 14 11 12 11 8.5	44 24 15 11 8.2 6.5	1.2 1.2 1.1 0.93 0.82
MEAN MAX MIN IN.	56.5 209 3.5 0.17	25.8 110 14 0.08	17.0 28 8.8 0.05	147 3890 9.2 0.46	188 1420 46 0.52	115 536 49 0.36	610 4050 33 1.82	2322 16000 123 7.18	120 545 22 0.36	28.4 143 8.5 0.09	18.1 236 3.7 0.06	2.54 9.5 0.82 0.01
	TICS OF MO											
MEAN MAX (WY) MIN (WY)	148 1742 1987 0.00 1957	176 2639 1986 0.00 1957	166 1832 1983 0.23 1957	184 991 1969 0.66 1954	322 1720 1982 0.92 1954	440 2783 1973 6.54 1956	488 2691 1973 24.8 2000	502 2322 2002 15.5 1989	312 2296 1947 4.77 1936	241 2100 1993 0.52 1936	104 1357 1970 0.00 1936	121 1351 1970 0.17 1940
SUMMAR	Y STATISTI	CS	FO	R 2001 CAL	ENDAR YEA	AR.	FOR 2002	WATER YEA	R	WATER YE	EARS 1935	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN ANNUAL 10 PER 50 PER	MEAN T ANNUAL ME T ANNUAL ME T DAILY ME DAILY MEA SEVEN-DAY M PEAK STA ITANEOUS LO RUNOFF (I CENT EXCEE CENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS DS		5520 1.2 1.8  7.81 383 28 4.1	Jun Aug 1 Aug 1	15	306  16000 0.82 1.1 23000 25.00 0.71 11.2 439 29 3.9	May Sep 3 Sep 2 May May Sep 3	0 4 9 9	263 748 22.1 32600 0.00 57400 29.70 0.00 9.60 466 39 3.5	Several Several Apr 2	Years 21 1973 21 1973

e Estimated

60 BEAR CREEK BASIN

# 05502000 BEAR CREEK AT HANNIBAL, MO

LOCATION.--Lat 39°40'43", long 91°24'41", in SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.1, T.56 N., R.5 W., Ralls County, Hydrologic Unit 07110004, at bridge on Industrial Drive, on right downstream bank, and 4.65 mi upstream from mouth.

DRAINAGE AREA. -- 31.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1938 to September 1942, October 1947 to current year in reports of the U.S. Geological Survey.

Monthly discharge only for some periods published in WSP 1308. October 1936 to November 1938 (gage-height and discharge measurements only) in reports of the Missouri Department of Natural Resources.

REVISED RECORDS.--WSP 1115: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 508.91 ft above National Geodetic Vertical Datum of 1929.
Prior to Mar. 26, 1948, nonrecording gage; Mar. 26, 1948, to Sept. 30, 1953, water-stage recorder at datum 2.00 ft higher;
Oct. 1, 1953, to Oct. 30, 1961, at present datum; Oct. 31, 1961, to Sept. 5, 1972, water-stage recorder 400 ft downstream at present datum; Sept. 6, 1972, to July 2, 1986, water-stage recorder 525 ft upstream at present datum.

REMARKS.--Records poor. Flow partially regulated by Bear Creek flood control reservoir, 1.0 mi upstream, since Aug. 7, 1961. EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft<sup>3</sup>/s, Aug. 3, 1957; gage height, 14.05 ft.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE	CAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.81 0.76 0.62 0.67 26	2.3 2.3 2.3 2.2 2.1	5.5 4.7 4.0 3.8 4.6	2.6 2.7 2.6 2.7 3.2	12 8.0 6.8 160 279	7.1 10 12 9.1	4.7 4.6 3.9 3.7 4.1	131 122 226 259 170	7.6 7.0 7.0 5.6 6.3	3.3 3.0 3.1 3.0 3.0	1.9 1.8 1.7 1.7	1.2 1.3 1.1 0.85 1.1
6 7 8 9 10	30 7.8 2.6 1.9 2.4	2.1 2.3 2.2 2.0 2.1	3.5 3.1 3.0 2.8 2.7	3.8 3.4 3.2 4.6 3.1	254 115 14 11 10	29 25 15 38 20	4.3 5.2 56 63 110	104 174 178 225 407	8.4 7.9 7.8 7.3 8.8	3.0 3.1 3.0 3.1 3.2	1.6 1.3 1.2 1.1	1.1 1.0 0.94 0.75 0.68
11 12 13 14 15	4.4 15 11 21	2.1 2.1 2.1 2.1 2.1	2.8 3.9 6.4 6.7 6.1	3.5 2.9 2.8 2.9 2.7	9.5 9.6 8.7 8.1	13 11 9.6 9.0 8.7				4.8 3.8 3.0 2.3 2.3		0.61 0.58 0.58 0.66 0.97
16 17 18 19 20	15 8.3 4.9 3.7 3.1	2.1 2.0 2.1 2.2 2.0	5.1 4.7 4.1 3.7 3.2	2.6 2.6 2.5 2.7 2.8	7.3 5.3 4.8 6.3	8.0 7.6 7.2 7.3 8.4	7.8 7.2 6.1 5.4 4.9	113 123 117 115 269	12 10 8.9 7.4 6.7	2.4 2.1 2.2 2.1 2.2	2.0 2.9 1.7 17 4.3	1.1 1.0 0.96 0.96 0.97
21 22 23 24 25	2.8 2.7 2.7 2.9 2.4	2.0 2.3 2.2 31 32	3.1 8.4 8.2 5.5 4.2	2.6 2.6 2.7 2.7 2.5	22 14 11 9.3 8.2	6.9 6.2 6.6 7.0 6.9	58 14 95 134 148	521 501 215 18 31	6.2 6.1 6.2 5.5 5.7	1.9 4.7 14 5.3 2.7	2.3 1.8 40 11 2.7	0.92 0.66 0.69 0.53 0.40
26 27 28 29 30 31	2.2 2.2 2.2 2.2 2.2 2.2	10 6.8 5.1 5.2 5.7	3.6 3.6 3.6 3.1 2.7 2.7	2.7 2.5 2.4 2.4 41 80	7.7 6.8 6.5 	6.5 5.6 5.3 6.4 5.8	37 151 52 114 132	16 41 63 15 16 9.0	5.9 5.4 4.3 4.1 3.7	2.3 2.1 1.9 6.4 7.5 2.6	1.8 1.6 1.4 1.2 1.2	0.63 0.56 0.83 0.56 0.47
MEAN MAX MIN IN.	6.44 30 0.62 0.24	4.84 32 2.0 0.17	4.29 8.4 2.7 0.16	6.58 80 2.4 0.24	38.4 279 4.8 1.29	10.8 38 5.0 0.40	43.7 151 3.7 1.57	183 521 9.0 6.81	15.1 130 3.7 0.54	3.53 14 1.9 0.13	3.82 40 1.1 0.14	0.82 1.3 0.40 0.03
STATIS	TICS OF MC			R WATER Y	EARS 1962	2 - 2002 <sup>a</sup>	, BY WATER	YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	13.9 116 1970 0.02 1964	19.6 225 1986 0.15 1964	18.1 155 1983 0.11 1964	15.7 84.0 1969 0.27 1977	32.2 136 1997 0.85 1964	37.7 125 1973 2.86 1981	38.7 193 1973 2.94 2000	40.5 183 2002 2.25 2000	22.0 76.5 1982 0.58 1963	19.0 193 1981 0.03 1977	14.4 141 1993 0.15 1962	13.8 190 1970 0.01 1988
SUMMAR	Y STATISTI	CS	FOR	2001 CAL	ENDAR YEA	AR.	FOR 2002	WATER YE	AR	WATER YE	ARS 1962	- 2002 <sup>a</sup>
LOWEST HIGHES' LOWEST ANNUAL MAXIMU MAXIMU INSTAN ANNUAL 10 PER 50 PER	MEAN T ANNUAL M ANNUAL M T DAILY MEA SEVEN-DAY M PEAK FLC M PEAK STT TANEOUS LC RUNOFF (I CENT EXCER CENT EXCER	CAN CAN AN MINIMUM OW AGE OW FLOW CINCHES) COS		21.5 325 0.54 0.72  9.41 66 3.8 1.1	Jan 3 Sep 1 Sep 1	4	26.8 521 0.40 0.57 792 6.06 0.14 11.74 76 4.6 1.2	May Sep Sep Apr Apr Sep	21 25 24 27 27 30	23.7 57.9 5.33 1470 0.00 0.00 3120 9.24 0.00 10.40 52 4.6 0.58	Sep 2 Several Several Sep 2 May 1 Several	1993 1989 5 1970 Years Years 3 1970 4 1970 Years

a Post-regulation period.

## 05502300 NORTH FORK SALT RIVER AT HAGERS GROVE, MO

LOCATION.--Lat 39°49'48", long 92°13'47", in NE  $\frac{1}{4}$  Sec.15, T.58 N., R.12 W., Shelby County, Hydrologic Unit 07110005, at bridge on State Highway 151, 200 ft downstream from old channel carrying Bear Creek, 0.25 mi west of Hagers Grove, 2.5 mi upstream from Ten Mile Creek, and at mile 143.8.

DRAINAGE AREA.--365 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1974 to current year. Prior to October 1983 published as "Salt River at Hagers Grove, Mo.". September 1939 to August 1974, gage-height and miscellaneous measurements published by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 702.30 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1947 reached a stage of 19.7 ft, discharge  $26,900 \text{ ft}^3/\text{s}$ , according to information furnished by the U.S. Army Corps of Engineers.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE		R 2001 TO 8	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 17 17 21 114	17 14 13 12 11	11 10 9.5 8.9	e5.4 e4.8 e4.4 e4.1 e5.1	307 189 e161 e121 e96	61 58 58 79 66	45 43 41 39 37	e292 130 92 63 47	112 62 38 32 28	13 12 11 9.4 8.6	6.9 7.6 6.7 6.7	3.8 3.7 3.4 3.2 3.1
6 7 8 9 10	95 59 34 20 18	13 13 22 17 16	16 14 14 15 13	e6.0 e5.8 e4.9 e6.5 e8.4	e77 e68 62 140 464		35 36 59 230 215	3380 4400 788 5020 1110	25 20 20 20 18	10 10 31 35 29	6.2 6.8 6.1 5.7	3.0 3.0 2.9 3.0 2.8
11 12 13 14 15	18 15 26 27 87	17 18 16 15	13 14 15 36 55	e9.0 e9.6 e11 e11	463 232 164 e120 e97	190 126 106 95 81	113 75 60 53 50	6130 16600 25000 4950 1270	20 489 954 744 249	209 141 210 72 45	5.3 5.2 6.1 7.9 5.6	3.0 3.0 3.1 3.3 3.0
16 17 18 19 20	639 159 71 48 37	15 15 14 14 13	38 e29 e23 e18 e16	e10 e7.8 e7.7 e9.0 e7.9	e79 e71 63 62 562	68 59 54 51 51	45 41 38 91 111	577 223 208 158 110	167 100 65 43 37	25 23 18 12 11	5.2 5.1 6.1 17	3.1 3.2 3.8 3.2 5.6
21 22 23 24 25	30 28 23 58 48	13 12 10 6.8 7.5	e14 e12 e11 e10 e9.6	e13 10 12 11	614 208 129 108 96		1390 1030 252 418 1430	91 94 87 500 4020	34 30 27 24 22	8.1 6.3 5.8 6.6 7.6	6.8 29 62 36 17	4.7 4.1 4.0 4.2 3.9
26 27 28 29 30 31	42 36 30 25 21 19	7.7 5.9 9.1 6.3 7.7	e8.1 e6.5 e6.3	12 15 13 13 28 347	81 64 60 	40 40 45 50 49 48	353 1460 e2980 e1360 e374	1850 415 640 1410 382 186	20 18 16 15	13 8.4 5.5 41 10 7.8	15 9.2 5.6 4.9 4.7 4.2	3.7 3.5 3.4 3.3 3.1
MEAN MAX MIN IN.	61.1 639 12 0.19	12.9 22 5.9 0.04	15.8 55 6.3 0.05	0.06	177 614 60 0.51	120 927 39 0.38	417 2980 35 1.27	47 8.18	115 954 14 0.35	34.0 210 5.5 0.11	10.8 62 4.2 0.03	3.47 5.6 2.8 0.01
STATIST MEAN MAX (WY) MIN (WY)	176.8 1201 1987 2.02 1989	276.0 1426 1986 4.40	192.4 1319 1983 2.20 1977	126.8	350.1 1599 1982 5.18 1989	416.7 1177 1979 22.5 1989	464 2036 1983 8.20 1989	YEAR (WY) 642 2631 1995 10.4 1980	281 1074 1984 3.55 1988	372 3033 1993 4.01 1988	87.9 441 1982 3.90 1984	105 937 1993 3.41 1988
SUMMARY	STATISTI	CS	FO	R 2001 CAI	ENDAR YEA	AR.	FOR 2002	WATER YEAR	?	WATER YE	ARS 1974 -	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY ME SEVEN-DAY I PEAK FLC RUNOFF (I ENT EXCEE ENT EXCEE	CAN CAN AN MINIMUM OW AGE OW FLOW CINCHES) COS		9530 3.4 4.5  9.70 430 33 8.1	Feb Sep 1 Jan	.5	301 25000 2.8 3.0 42000 <sup>6</sup> 20.91 2.5 11.19 361 22 5.0	May 1: Sep 1( Sep ( May 1: May 1: Sep 7-1:	3 3 5 5 5 2 2 2 2 3	291 767 30.1 25000 0.18 0.44 42000 <sup>a</sup> 20.91 0.17 10.82 518 31 4.2	May 1: Aug Oct 2: May 1: May 1: Oct 2:	7 1988 0 1991 2 2002 2 2002

e Estimated

From rating extended above 25,000 ft<sup>3</sup>/s, by indirect measurement.

## 05502500 NORTH FORK SALT RIVER NEAR SHELBINA, MO

LOCATION.--Lat 39°44'29", long 92°02'26", in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.17, T.57 N., R.10 W., Shelby County, Hydrologic Unit 07110005, on right bank near downstream end of bridge on State Highway 15, 3.0 mi north of Shelbina, 15.0 mi upstream from Black Creek, and at mile 122.3.

DRAINAGE AREA. -- 481 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1930 to February 1934, March 1934 to September 1972. March 1988 to current year. Prior to March 1988 published as "Salt River near Shelbina, Mo.". Fragmentary record prior to October 1933. Monthly discharge only for period October 1933 to February 1934 published in WSP 1308.

GAGE.--Water-stage recorder and crest-stage gage with concrete control since Mar. 25, 1988. Datum of gage is 664.58 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 1, 1934, nonrecording gage at site 100 ft downstream at present datum; Mar. 1, 1934, to Nov. 2, 1962, water-stage recorder at site 175 ft downstream at present datum; Nov. 3, 1962, to Sept. 30, 1972, water-stage recorder at site 100 ft upstream at present datum; Oct. 1, 1972, to Sept. 30, 1979, gage-height records collected by U.S. Army Corps of Engineers, St. Louis District, at site 100 ft downstream; Oct. 1, 1979, to Sept. 1981, gage-height data collected by the U.S. Geological Survey at site 100 ft downstream.

REMARKS.--Records good except for discharges below  $50~{\rm ft}^3/{\rm s}$ , which are poor. Water is pumped from river at the gage by the city of Shelbina. U. S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1928 reached a stage of 23.54 ft, from floodmarks, discharge 18,000 ft<sup>3</sup>/s.

		DISCIAN	.GE, CODI	C PEET PER		Y MEAN VA		R 2001 10	OBF TEMBE	11. 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	19 22 28 36 252	21 21 21 23 23	13 13 12 11	7.0 6.1 5.6 5.6 6.5	1000 489 e254 e201 e165	57 55 e53 e90 61	43 40 35 33 31	419 327 232 156 116	148 102 77 61 54	17 16 16 15 15	e9.5 e7.8 e6.8 e6.0 e5.4	5.0 4.8 4.7 4.4 4.1
6 7 8 9 10	290 82 46 30 28	21 24 28 27 28	12 13 13 13	7.3 7.0 7.6 8.6	e126 e99 e85 117 357	96 251 245 802 1400	30 31 119 446 463	1840 6660 6030 6640 7000	45 40 35 32 29	15 17 14 40 66	e4.8 4.3 4.9 4.6 4.6	4.3 4.6 e4.1 e3.6 e3.2
11 12 13 14 15	54 30 59 123 60	28 25 21 22 24	13 17 18 19 50	11 12 12 13 13	700 386 252 e185 e135	441 246 174 132 106	275 155 110 89 80	4820 9530 17900 20500 9040	31 670 938 1540 397	50 254 137 76 36	4.4 4.2 4.9 9.0 6.5	e2.8 3.9 4.0 5.2 8.6
16 17 18 19 20	959 421 153 76 48	22 19 22 22 20	46 33 25 21 18	13 10 10 12 9.9	99 85 70 68 471	83 67 57 55 55	69 60 53 57 210	2800 1140 803 602 398	184 112 78 61 48	23 18 43 16 12	8.1 7.3 7.1 9.4 14	8.3 9.0 10 9.6 12
21 22 23 24 25	36 30 28 28 96	22 25 25 21 14	16 15 14 13 12	14 12 15 15 13	965 426 225 152 114	51 42 39 38 40	1040 2210 606 313 1760	194 136 121 362 2980	40 34 30 28 26	9.9 11 10 6.9 6.3	13 13 95 85 26	13 9.8 8.0 6.3 7.1
26 27 28 29 30 31	53 44 32 29 24 22	14 15 12 17 14	12 14 14 9.8 8.8 8.1	14 14 16 15 115	83 e65 54 	41 40 43 52 54 48	695 1420 5540 5410 1130	4840 1460 498 1840 689 262	24 22 20 19 18	8.9 9.5 7.8 11 27	16 14 11 7.6 6.4 6.1	6.0 5.4 5.6 6.7 8.7
MEAN MAX MIN IN.	104 959 19 0.25	21.4 28 12 0.05	16.8 50 8.1 0.04	48.1 1060 5.6 0.12	265 1000 54 0.57	162 1400 38 0.39	752 5540 30 1.74	3559 20500 116 8.53	165 1540 18 0.38	32.8 254 6.3 0.08	13.8 95 4.2 0.03	6.43 13 2.8 0.01
STATIST	CICS OF MO	NTHLY MEA	N DATA F	FOR PERIOD	OF RECOR	D, BY WAT	TER YEAR (	WY)				
MEAN MAX (WY) MIN (WY)	143 1208 1999 0.00 1953	173 1327 1993 0.00 1954	146 835 1972 0.00 1954	214 1319 1965 0.01 1954	382 1475 1997 1.80 1934	452 1417 1948 6.41 1956	542 1944 1944 7.24 1989	565 3559 2002 12.2 2000	438 4171 1947 2.93 1988	334 4119 1993 0.00 1934	119 1214 1970 0.00 1936	156 1831 1970 0.00 1953
SUMMARY	STATISTI	CS	FC	OR 2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	FOR I	PERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANTI ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY 1 PEAK FLO 1 PEAK STA CANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS		9530 5.9 6.3  11.42 773 49	Jun Jan Jan	4	20500 2.8 3.7 24600 27.29 2.7 12.20 632 28 6.6	May Sep Sep May May Sep	11 7 13 13	308 1037 36.2 205500 0.00 24600 27.40 0.00 8.69 677 32	May Man Man May Jun	1993 1989 14 2002 Y Years Y Years 13 2002 7 1947 Y Years

e Estimated

# 05503800 CROOKED CREEK NEAR PARIS, MO

LOCATION.--Lat 39°35'06", long 91°59'36", near NW corner S  $\frac{1}{2}$  sec.2, T.55 N., R.10 W., Monroe County, Hydrologic Unit 07110005, on right bank downstream from county road bridge, 7.0 mi north of Paris, 1.4 mi north of State Route 15, and at mile 8.9.

DRAINAGE AREA.--80.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1979 to current year. March 1966 to October 1979 published by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 650.00 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1967, wire-weight gage and Nov. 9, 1967, to Sept. 30, 1979, recording gage at datum 50 ft lower.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of April 1973 reached a stage of 15.53 ft; discharge, 12,100  $\rm ft^3/s$ , according to information furnished by the U.S. Army Corps of Engineers.

		DISCHAR	GE, CUBI	C FEET PER		WATER YE		ER 2001 TO	) SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.50 0.41 0.32 0.27	0.77 0.97 0.88 0.85 0.75	0.94 0.85 0.74 0.68 e0.68	0.58 0.61 0.56 0.53 0.59	567 136 47 31 22	8.6 9.6 9.8 9.2 9.8	7.2 6.8 6.4 6.0 5.8	29 23 18 14 12	4.9 4.0 3.2 2.6 2.2	0.58 0.49 0.43 0.39 0.34	0.64 0.40 0.26 0.19 0.13	0.24 0.15 0.10 0.06 0.03
6 7 8 9 10	230 31 9.8 4.7 4.5	0.66 0.75 0.81 0.76 0.80	0.66 0.64 0.59 0.53 0.46	0.70 0.70 0.75 0.81 0.82	18 14 12 12 12	26 63 54 183 167	5.6 5.8 22 156 90	1100 1850 1250 3280 1070	2.0 1.7 1.4 1.4	0.30 0.27 0.24 0.23 4.9	0.08 0.05 0.02 0.02 0.01	0.01 0.00 0.00 0.00 0.00
11 12 13 14 15	11 16 19 50 33	0.83 0.77 0.73 0.74 0.74	0.45 0.52 0.52 0.51 0.49	0.84 0.83 0.75 0.82 0.76	12 13 14 11	45 27 21 17 15	34 20 14 11	1310 2130 885 86 37	2.7 40 254 195 30	9.5 8.3 9.7 3.8 2.1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	97 51 15 7.3 4.2	0.71 0.65 0.60 0.60 0.53	0.57 0.89 1.5 1.2 0.98	0.60 0.50 0.47 0.56 0.58	9.1 8.5 8.1 8.6 88	13 11 10 9.6 10	8.6 7.6 6.5 5.9 6.9	24 24 34 19 13	12 7.5 5.6 4.6 3.6	1.4 0.90 1.8 1.5 0.76	0.00 0.00 0.07 0.12 0.19	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	3.1 2.2 1.7 1.8 1.7	0.47 0.43 0.39 0.77 1.4	1.1 1.3 1.2 0.99	0.66 0.64 0.61 0.70 0.65	171 51 28 20 16	10 9.3 8.7 8.3 8.2	409 207 56 31 27	9.5 7.6 6.5 7.7 134	2.9 2.3 1.9 1.5	0.44 0.50 66 16 5.3	0.36 0.39 37 13 5.0	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	1.2 0.72 0.53 0.73 0.80 0.66	1.4 1.2 0.95 0.89 0.94	0.63 0.61 0.66 0.57 0.41 0.45	0.58 0.54 0.49 0.46 48 700	13 11 9.2 	8.1 7.9 7.6 7.5 7.6 7.4	18 659 663 156 45	206 33 16 11 8.1 6.2	1.1 1.5 1.4 0.90 0.72	5.0 7.2 2.7 1.8 1.5	5.4 2.7 1.5 0.95 0.58 0.37	0.00 0.00 0.00 0.00 e0.00
MEAN MAX MIN IN.	25.8 230 0.27 0.37	0.79 1.4 0.39 0.01	0.74 1.5 0.41 0.01	24.7 700 0.46 0.36	49.0 567 8.1 0.64	26.1 183 7.4 0.38	90.2 663 5.6 1.26	440 3280 6.2 6.35	19.8 254 0.72 0.28	5.02 66 0.23 0.07	2.24 37 0.00 0.03	0.02 0.24 0.00 0.00
	TICS OF MON											
MEAN MAX (WY) MIN (WY)	25.6 321 1987 0.00 1980	58.8 550 1986 0.00 1981	51.0 247 1983 0.00 1989	33.4 162 1999 0.00 1989	81.7 359 1985 0.00 1989	81.4 244 1998 0.07 1989	90.7 319 1983 0.16 1989	150 669 1995 1.53 1988	72.9 250 1998 0.03 1988	75.8 554 1993 0.00 1988	23.0 223 1993 0.00 1988	35.8 510 1993 0.00 1983
SUMMAR	Y STATISTIC	CS	FO	R 2001 CAL	ENDAR YEA	R	FOR 2002	WATER YE	EAR	WATER YE	EARS 1980	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN ANNUAL 10 PER 50 PER	MEAN T ANNUAL ME ANNUAL ME ANNUAL ME DAILY MEA DAILY MEA SEVEN-DAY M PEAK FLOW M PEAK STA TANEOUS LOW RUNOFF (IN CENT EXCEET CENT EXCEET	AN AN I MINIMUM SE V FLOW ICHES) OS		2130 0.03 0.06  10.8 92 4.6 0.50	Jan 3 Aug 1 Aug 1	0 3 4 0 4 0 5 10 0 5	3280 0.00 Aug 1 0.00 8850 0.35 0.00 Aug 1 0.75 50 1.5	l1-17,Sep Au Ma Ma	ıg 11 ay 9 ay 9	64.9 179 7.38 7150 0.00 9460 13.62 0.00 11.02 89 3.2 0.00	Man Man May May	1993 1989 7 1996 y Years y Years 7 1996 7 1996 y Years

e Estimated

## 05504800 SOUTH FORK SALT RIVER ABOVE SANTA FE, MO

LOCATION.--Lat 39°19'34", long 91°50'02", in SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  Sec.31, T.53 N., R.8 W., Audrain County, Hydrologic Unit 07110006, on left bank near downstream side of bridge on county road, 4.0 mi southwest of Santa Fe, 1.0 mi upstream from Littleby Creek, and at mile 104.2 above mouth of Salt River.

DRAINAGE AREA. -- 233 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1940 to current year. Published as "near Santa Fe" (05504900) October 1968 to September 1975 and as "at Santa Fe" (05505000) February 1940 to September 1968 and October 1975 to September 1986.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 644.87 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 5, 1940, nonrecording gage; Feb. 5, 1940, to Sept. 30, 1968, and Oct. 1, 1975 to Sept. 30, 1986, water-stage recorder 8.0 mi downstream at datum 613.05; Oct. 1, 1968, to Sept. 30, 1975, water-stage recorder, 1.0 mi downstream at datum 5.78 ft lower.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	E, CUBI	C FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.4 6.4 6.7	10 12 13 21 14	46 53 34 28 24	7.2 6.4 5.5 5.5 6.3	2420 409 184 120 82	19 24 48 67 65	38 35 31 28 26	161 126 104 78 63	67 50 42 37 35	11 9.1 8.6 8.4	4.7 5.6 4.1 2.5 5.1	4.1 3.9 3.5 3.0 1.8
6 7 8 9 10	30 26 23 15 17	13 13 12 11 11	20 16 14 12 11	6.7 6.6 6.8 7.3 7.5	61 51 49 41 38	171 214 141 110 135	24 23 40 152 155	1680 5060 5190 4300 1670	35 34 33 31 32	6.8 14 35 18	3.9 1.7 0.75 3.6 2.9	1.0 0.82 3.2 3.4 3.1
11 12 13 14 15	29 93 219 229 152	11 10 11 11 11	10 11 15 69 66	7.8 7.8 8.1 8.1	36 34 32 29 26	94 65 54 49 44	93 64 50 41 37	1250 1580 2940 989 293	216 1230 1560 219 96	195 360 84 34 22	2.3 2.4 2.3 2.0 3.6	3.2 2.3 2.2 3.8 4.9
16 17 18 19 20	147 166 81 42 27	12 12 11 12 12	55 41 68 51 33	8.0 7.8 7.4 7.8 7.8	24 22 21 21 37	41 36 32 32 47	33 30 32 33 403	195 805 2820 701 233	59 43 34 28 24	16 14 17 13 11	5.3 3.5 4.9 11	16 9.3 6.7 5.6 4.9
21 22 23 24 25	21 17 17 17 40	15 14 12 23 67	26 23 25 28 23	8.2 8.0 8.6 9.1	60 53 39 32 27	48 45 37 33 41	1980 1550 302 163 109	149 110 90 77 70	22 20 18 16 16	9.9 8.5 8.0 43 21	15 12 33 26 15	4.2 3.8 9.2 4.1 2.8
26 27 28 29 30 31	35 28 21 17 15	73 42 30 24 30	17 14 13 11 9.6 8.3	10 9.6 9.1 8.5 83 3290	25 23 20  	83 82 71 56 48 43	79 2010 3920 1150 252	67 62 55 50 248 137	15 16 14 13 12	12 10 9.3 7.7 5.0 3.8	11 7.9 6.8 5.7 5.0 4.6	2.3 2.4 2.8 3.1 3.2
MEAN MAX MIN IN.	50.8 229 6.4 0.25	19.1 73 10 0.09	28.2 69 8.3 0.14	116 3290 5.5 0.57	143 2420 20 0.64	66.9 214 19 0.33	429 3920 23 2.06	1011 5190 50 5.01	136 1560 12 0.65	33.5 360 3.8 0.17	7.46 33 0.75 0.04	4.15 16 0.82 0.02
							BY WATER					
MEAN MAX (WY) MIN (WY)	123 1646 1942 0.01 1954	127 1378 1986 0.36 1954	127 1447 1983 0.58 1964	139 792 1974 1.18 1963	227 1031 1985 1.91 1954	300 1715 1973 2.74 1954	334 1734 1944 3.42 2000	312 2238 1943 5.92 1980	244 1307 1942 3.28 1988	201 2415 1969 1.31 1944	56.2 544 1982 0.46 1964	128 1830 1993 0.22 1960
SUMMARY	STATISTI	CS	FO	R 2001 CAL	ENDAR YEA	AR	FOR 2002	WATER YEA	R	WATER Y	EARS 1940	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN  ANNUAL ME  ANNUAL ME  DAILY ME  DAILY MEA  SEVEN-DAY  1 PEAK FLO  M PEAK STA  CANEOUS LO  RUNOFF (II  CENT EXCEE  CENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		5370 3.9 4.2  12.55 342 26 7.6	Feb : Aug 11, Jan	12	5190 0.75 2.3 5930 17.33 0.56 9.96 188 23 4.2	May Aug Aug May May Aug 8,	8 7 7 7	193 509 10.7 24000 0.00 0.00 31800 28.66 0.00 11.24 317 16	Oct Man Man Sep Sep Man	1969 1954 13 1969 y Years y Years 23 1993 23 1993 y Years

# 05506100 LONG BRANCH NEAR SANTA FE, MO

LOCATION.--Lat 39°21'21", long 91°50'03", in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec. 19, T.53 N., R.8 W., Monroe County, Hydrologic Unit 07110006, on left bank on west side of concrete ford on County Road 614, 2 mi southwest of Santa Fe.

DRAINAGE AREA.--180 mi².

PERIOD OF RECORD.--December 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 625.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges and those below 10  $\mathrm{ft^3/s}$ , which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUB	IC FEET PER		VATER YE MEAN V		R 2001 TO	SEPTEMB	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.2 1.1 0.94 0.76 4.7	3.0 2.6 2.6 2.2 2.1	13 8.2 5.4 6.0 5.1	1.3 0.53 0.82 0.65 0.67	1350 553 120 70 49	15 19 21 19 23	14 12 11 11 9.8	82 74 50 38 31	16 14 12 9.9 8.3	2.1 1.8 1.6 1.4	0.02 0.00 0.25 0.10 0.00	0.67 0.50 0.26 0.20 0.15
6 7 8 9 10	15 38 31 21 16	2.1 2.2 1.9 1.6 1.4	3.7 3.2 2.6 2.1 1.6	0.70 0.68 0.73 0.93 0.94	39 34 31 27 27	69 102 87 107 133	9.1 10 33 136 103	2560 2870 1990 3670 1440	7.8 6.9 6.1 5.4 6.9	1.0 4.1 5.6 3.3 2.7	0.00 0.00 0.00 0.00 0.00	0.12 0.10 0.08 0.04 0.02
11 12 13 14 15	13 50 73 81 64	1.3 1.2 0.75 0.67	1.5 1.9 3.7 12 11	1.1 1.3 1.4 1.6	25 22 20 19 18	99 65 47 37 32	69 44 31 23 18	2670 3030 3670 e1110 e113	260 882 683 144 71	20 39 11 5.0 2.7	0.00 0.00 0.03 0.01 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	90 88 59 38 25	0.67 0.81 0.99 0.94 0.83	8.1 9.9 11 8.5 6.7	1.6 1.5 1.5 1.6	17 15 15 15 19	29 25 22 22 25	15 13 12 13 35	e64 e192 e500 e111 e42	39 25 18 14 11	1.9 23 2.6 0.43 0.20	0.00 0.25 0.47 0.07 0.03	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	17 11 6.8 5.0 5.0	0.71 0.67 0.72 42 23	6.0 6.3 5.1 4.0 3.4	1.6 1.6 2.0 2.1 2.1	26 28 25 22 21	25 22 20 20 21	1490 1100 464 102 59	e27 e24 e24 e23 e107	8.8 7.0 6.0 5.1 4.6	0.13 0.08 0.06 0.03 0.03	0.03 0.02 5.5 5.9	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	3.7 2.3 2.1 2.1 2.0 3.5	9.5 15 9.9 6.7 9.0	3.5 3.2 2.6 2.3 1.7	2.1 2.1 2.1 2.1 120 3320	20 18 16 	21 21 22 20 16 15	42 2210 2870 1140 232	e117 e29 e23 e22 20 19	3.9 3.2 2.9 2.6 2.4	0.03 0.03 0.03 0.03 0.03 0.03	16 11 4.9 2.2 1.3 0.92	0.00 0.00 0.00 0.00 0.00
MEAN MAX MIN	24.9 90 0.76	4.92 42 0.67	5.32 13 1.5	112 3320 0.53	95.0 1350 15	39.4 133 15	344 2870 9.1	798 3670 19	76.2 882 2.4	4.23 39 0.02	2.61 32 0.00	0.07 0.67 0.00
STATIST	rics of M	ONTHLY MEA	N DATA I	FOR WATER Y	TEARS 1994	- 2002,	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	45.6 266 1999 0.01 2000	42.6 246 1999 0.00 2000	11.0 32.0 1999 0.61 2000	182 534 1999 0.11 2000	322 1053 1997 17.6 1996	144 487 1998 13.1 2000	249 636 1999 1.25 2000	379 1062 1995 16.4 2000	201 514 1998 23.2 1996	155 943 1998 4.23 2002	65.0 254 2000 0.04 1999	8.49 38.6 1998 0.00 1999
SUMMARY	STATIST	ICS	FOR	2001 CALEN	DAR YEAR	F	FOR 2002 W	ATER YEAR		WATER Y	EARS 1994	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANT 10 PERC 50 PERC	CANNUAL MANNUAL MEDAILY MEDAIL	EAN EAN AN Y MINIMUM OW AGE OW FLOW EDS EDS		4410 0.00 0.15  213 11 0.76	Jan 30 Aug 22 Aug 16		5740 12.72	May 9 Many Days At Times Apr 27 Apr 27 Many Days		142 237 35.8 12400 0.00 Many 0.00 16700 22.43 0.00 Many 206 9.9 0.13	y Days 199 At Jul Jul	t Times 4 1998 4 1998

e Estimated

# 05506350 MIDDLE FORK SALT RIVER NEAR HOLLIDAY, MO

LOCATION.--Lat 39°31'32", long 92°07'40", in NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec. 27, T. 55 N., R. 11 W., Monroe County, Hydrologic Unit 07110006, on right bank, downstream side of Highway A bridge, approximately 2.1 mi north of Holliday.

DRAINAGE AREA. -- 313 mi<sup>2</sup>.

PERIOD OF RECORD.--Dec. 17, 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 651.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHARG	E, CUBIC	C FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.1 4.7 4.2 7.9 527	20 17 11 10 9.8	10 9.3 8.4 7.5	7.6 6.7 6.3 6.1 6.2	2060 936 333 222 e182	35 37 e41 e44 e47	23 22 20 18 17	405 193 122 92 72	77 62 51 42 36	11 10 10 9.7 9.3	19 14 8.9 5.9 4.1	3.4 3.2 2.7 2.4 2.4
6 7 8 9 10	778 152 89 52 38	9.6 9.7 9.8 10 9.6	11 12 12 11 10	6.3 6.5 6.3 6.5	e149 121 84 61 58	145 186 143 773 806	16 16 102 339 244	3270 4700 5370 8730 7380	34 30 26 23 21	9.5 14 13 9.2	3.4 3.2 2.5 2.7 2.6	2.4 2.3 2.0 1.7
11 12 13 14 15	30 45 55 63 48	9.5 9.2 9.4 9.2 9.6	10 12 12 19	7.5 7.8 7.7 8.2 7.8	62 91 110 72 52	476 222 120 92 78	154 108 69 52 44	5450 5770 6330 4740 3140	24 212 406 736 362	23 245 243 189 55	2.5 2.4 2.7 3.0 3.0	2.3 1.6 2.1 2.0 3.5
16 17 18 19 20	200 291 157 73 48	9.6 9.6 9.7 10	20 20 20 22 21	7.5 7.3 6.7 6.6 6.3	43 37 33 36 334	64 54 47 44 44	38 33 29 27 28	623 247 286 193 138	130 61 39 32 27	23 14 11 8.7 7.5	4.0 5.0 7.0 15	2.6 2.4 2.5 2.5 5.0
21 22 23 24 25	37 29 26 23 19	10 9.7 10 15 15	17 16 14 13	6.3 5.7 6.7 8.0 7.9	514 286 180 106 75	41 35 32 30 31	1780 1760 807 351 139	108 91 80 83 584	22 19 16 14 14	6.3 5.6 24 13	10 7.3 10 13 13	2.6 3.4 2.2 5.1 5.2
26 27 28 29 30 31	15 14 15 15 10 16	16 14 13 13 12	11 10 9.9 9.4 8.8 8.2	6.9 6.8 6.7 6.6 148 2440	57 45 38  	29 27 27 27 27 25	107 1950 2950 2090 1570	1720 1550 795 170 108 99	13 11 10 11 11	9.8 30 29 15 9.3 6.9	26 14 9.6 6.5 5.0 4.0	3.8 3.1 2.9 2.7 3.3
MEAN MAX MIN	93.2 778 4.2	11.3 20 9.2	13.1 22 7.5	90.0 2440 5.7	228 2060 33	124 806 25	497 2950 16	2021 8730 72	85.7 736 10	35.0 245 5.6	7.88 26 2.4	2.82 5.2 1.2
STATIST							BY WATER					
MEAN MAX (WY) MIN (WY)	38.7 93.2 2002 6.42 2000	30.4 78.8 2001 1.12 2000	8.16 13.1 2002 5.24 2001	291 611 1999 2.12 2000	448 1136 2001 29.7 2000	260 490 1999 35.0 2000	380 771 1999 3.89 2000	731 2021 2002 21.9 2000	350 978 2001 72.3 1999	103 237 1999 35.0 2002	31.2 99.9 2000 2.64 1999	16.0 35.2 2001 2.82 2002
SUMMARY	Y STATISTI	CS	FOF	R 2001 CAL	ENDAR YE	AR	FOR 2002 1	WATER YEA	R	WATER YE	ARS 1999	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	MEAN  F ANNUAL ME ANNUAL ME T DAILY ME DAILY MEA SEVEN-DAY PEAK FLO PEANEOUS LO TENTE EXCEE CENT EXCEE	AN AN N MINIMUM W GE W FLOW DS		5480 2.7 3.3  621 45 8.3	Jun Jan Jan	4	269  8730 1.2 1.8 9360 21.53 1.2 344 17 3.7	May Sep 1 Sep May May Sep 1	0 8 9 9	203 296 44.5 8730 0.22 0.46 9360 21.53 0.18 252 14	Oct 1 Oct 1 May May	2001 2000 9 2002 19 1999 17 1999 9 2002 9 2002 18 1999

e Estimated

## 05506800 ELK FORK SALT RIVER NEAR MADISON, MO

LOCATION.--Lat 39°26'05", long 92°10'04", in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.29, T.54 N., R.11 W., Monroe County, Hydrologic Unit 07110006, on downstream side and 25 ft to the left of bridge on State Highway AA, 500 ft downstream from Allen Creek, 3.5 mi southeast of Madison, and at mile 29.8.

DRAINAGE AREA. -- 200 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1968 to current year.

REVISED RECORDS.--WRD MO 1973: 1970(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 690.16 ft above National Geodetic Vertical Datum of 1929 (Missouri State Highway and Transportation Commission bench mark).

 $\textit{REMARKS.--Records fair except discharges below 10 ft}^3/\text{s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.} \\$ 

EXTREMES OUTSIDE PERIOD OF RECORD.—-Flood of July 9, 1967, reached a stage of 31.25 ft, from floodmark, discharge 33,300 ft<sup>3</sup>/s, by contracted-opening method. Flood in 1871 reached nearly the same stage, from information by local resident.

		DISCHARO	E, CUBIC	C FEET PER		WATER YE.	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.0 3.7 4.0 4.5	5.6 6.4 6.0 5.3 5.0	7.3 8.4 7.8 7.5 6.8	3.7 3.3 3.0 3.0 3.4	1620 261 129 82 56	16 21 21 24 26	16 16 14 13 12	236 253 123 79 58	21 17 15 13 12	5.3 4.8 4.3 4.5	11 7.9 5.5 4.4 3.8	1.7 1.5 1.2 1.0 0.96
6 7 8 9 10	374 94 38 16 12	5.3 5.3 5.2 4.9 5.0	6.8 6.9 7.8 7.0 6.0	3.9 4.1 4.1 4.5 4.9	44 38 32 29 29	141 197 128 665 505	11 12 77 249 183	3180 4460 1770 4890 2990	13 13 11 8.8 7.9	4.1 3.7 5.0 7.8 5.9	3.4 3.0 2.8 2.5 2.3	0.97 1.1 1.3 1.4
11 12 13 14 15	13 17 23 35 53	4.7 4.4 4.6 4.6 4.7	5.4 5.9 7.0 14 17	5.0 5.1 5.2 5.4 5.0	36 36 28 23 20	145 91 68 55 46	87 59 44 36 30	2240 2620 1910 486 166	87 878 424 151 54	6.9 12 22 11 6.8	2.1 2.2 2.7 2.6 2.8	1.0 0.64 0.96 1.6 2.1
16 17 18 19 20	249 147 59 31 18	5.0 4.6 4.7 5.9 5.7	12 11 11 11 9.6	4.8 4.8 4.6 4.6 4.7	18 16 14 17 98	39 33 30 28 29	26 22 19 18 18	118 282 720 197 96	31 21 16 13 11	5.1 4.2 3.7 3.9 4.0	3.6 2.8 4.9 8.1 20	2.1 2.4 2.3 1.4 1.0
21 22 23 24 25	12 9.3 8.7 8.0	6.5 6.3 5.5 9.1	8.6 8.6 7.9 7.2 6.4	4.8 5.2 5.9 6.0 5.6	180 91 56 42 32	27 24 23 22 23	1800 1440 231 124 82	64 49 41 39 130	9.7 8.6 7.7 7.1 6.9	3.6 4.0 76 32 8.6	16 8.6 91 90 44	1.8 1.9 1.5 1.4
26 27 28 29 30 31	8.2 7.6 6.2 5.8 5.7 5.5	15 13 9.9 8.8 9.0	5.7 5.4 5.2 5.0 4.7 4.1	5.5 5.2 5.2 5.0 102 2580	25 19 17 	23 21 20 19 21 18	57 1720 3800 572 175	158 62 45 42 28 25	6.9 6.3 6.1 5.7 5.4	9.7 358 60 24 55 24	12 4.9 2.7 1.8 1.4	2.4 2.1 1.8 3.0 2.9
MEAN MAX MIN IN.	55.6 440 3.7 0.32	6.53 15 4.4 0.04	7.90 17 4.1 0.05	90.9 2580 3.0 0.52	110 1620 14 0.57	82.2 665 16 0.47	365 3800 11 2.04 BY WATER	889 4890 25 5.13	62.9 878 5.4 0.35	25.3 358 3.6 0.15	12.0 91 1.4 0.07	1.61 3.0 0.64 0.01
MEAN MAX (WY) MIN (WY)	100 1077 1987 0.25 1981	127 1248 1986 1.24 1981	128 750 1983 0.94 1989	124 533 1974 0.95 1977	210 935 1985 2.07 1989	262 1154 1973 3.02 1981	333 1651 1973 4.76 2000	279 1554 1995 10.0 1992	198 1005 1969 1.61 1988	158 1409 1981 1.06 1988	48.2 268 2000 0.82 1980	105 1381 1993 0.63 1988
SUMMARY	STATISTIC	CS	FOR	R 2001 CAL	ENDAR YEA	AR.	FOR 2002	WATER YE	AR	WATER YE	ARS 1969	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY I PEAK FLOI I PEAK STA ANEOUS LOI RUNOFF (II ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		201 6540 2.6 3.1  13.66 271 19 4.7	Jan 3 Aug 2 Aug	22	4890 0.64 1.1 6050 18.71 0.44 9.71 170 10 2.7	May Sep Sep May May Sep 12,	12 7 9 9	172 380 23.6 24100 0.00 0.00 42300 33.40 0.00 11.70 274 14	Aug 4-1 Aug Apr 2	4 1976 1 1973 1 1973

# 05507600 LICK CREEK AT PERRY, MO

LOCATION.--Lat 39°25'53", long 91°40'34", near center of NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.27, T.54 N., R.7 W., Ralls County, Hydrologic Unit 07110007, on right bank and downstream side of State Highway 154 bridge, 0.1 mi west of Perry, and at mile 11.9.

DRAINAGE AREA.--104 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1979 to current year. Prior to October 1979 gages were maintained and operated by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 625.00 ft above National Geodetic Vertical Datum of 1929. Prior to November 1967, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 12, 1969, reached a stage of 26.24 ft, as determined by the U.S. Army Corps of Engineers.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.36 0.27 0.23 0.13 6.3	3.8 4.8 5.4 5.8 6.2	13 13 9.0 6.2 4.8	1.4 1.2 1.0 0.99 1.0	558 94 42 28 19	5.2 8.6 15 13 16	6.9 6.5 5.9 5.2 4.7	85 44 19 13 9.9	6.2 4.8 3.8 3.1 2.8	0.55 0.42 0.31 0.23 0.21	0.01 0.00 0.00 0.00 0.00	0.03 0.02 0.00 0.00 0.00
6 7 8 9 10	9.4 3.1 1.9 1.2 1.9	5.7 5.4 5.1 4.5 4.8	4.2 3.2 2.6 2.2 2.0	1.2 1.2 1.1 1.2 1.4	14 11 9.3 8.6 8.4	81 69 39 47 41	4.5 4.6 52 83 35	2840 3580 1030 2330 210	2.5 2.2 1.8 1.5	0.22 49 7.9 2.5 1.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	6.1 47 59 51 22	5.0 4.9 4.8 4.8 4.9	1.7 2.1 3.1 16 28	1.4 1.4 1.2 1.3	7.5 7.0 6.3 5.7 5.3	23 16 13 11 10	19 13 10 8.8 7.8	1910 1450 1610 534 e24	102 1290 1530 199 49	1.2 0.89 2.1 1.2 0.67	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.03
16 17 18 19 20	42 26 13 7.8 5.0	4.9 4.5 4.3 4.6 4.5	18 13 21 17 9.5	1.5 1.5 1.5 1.4	5.1 4.8 4.5 5.0 45	9.4 8.4 7.6 7.8 10	6.7 5.5 5.0 5.5	e69 e110 e274 e44 e19	26 15 9.2 6.6 4.9	0.40 2.7 1.7 0.82 0.61	0.00 0.00 0.05 0.02 0.03	0.00 0.00 0.00 0.00 0.02
21 22 23 24 25	3.4 2.7 3.8 5.2 5.7	4.7 4.3 3.9 29	6.4 9.9 17 16 8.8	1.4 1.3 1.9 1.8 1.7	45 22 14 10 8.3	12 10 8.5 7.9 8.9	1290 262 52 27 16	e14 e13 e12 e16 15	3.7 2.8 2.2 1.8 1.8	0.51 0.41 0.31 0.20 0.12	0.04 0.04 19 31 5.9	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	5.5 4.7 4.4 3.9 3.8 3.8	21 12 7.7 6.0 9.2	5.5 3.9 3.2 2.6 2.0 1.7 2	1.6 1.5 1.1 1.6 34 970	7.6 6.1 5.4 	9.5 11 10 10 9.0 7.8	11 2490 2080 113 45	11 9.1 141 36 15 8.8	1.5 1.2 0.93 0.79 0.60	0.08 0.05 0.05 0.03 0.02	1.8 0.76 0.35 0.16 0.08 0.05	0.00 0.00 0.00 0.00 0.00
MEAN MAX MIN IN.	11.3 59 0.13 0.13	7.88 40 3.8 0.08	8.60 28 1.7 0.10	98.2 2970 0.99 1.09	36.0 558 4.5 0.36	17.9 81 5.2 0.20	226 2490 4.5 2.42	532 3580 8.8 5.90	109 1530 0.60 1.17	2.48 49 0.02 0.03	1.91 31 0.00 0.02	0.00 0.03 0.00 0.00
		NTHLY MEAN				•		-	•			
MEAN MAX (WY) MIN (WY)	14.1 95.9 1987 0.00 1989	79.3 652 1986 0.00 2000	68.0 442 1983 0.05 1980	52.9 190 2001 0.00 1980	116 441 1997 1.67 1981	86.1 340 1984 0.41 1981	117 541 1994 2.15 2000	134 532 2002 1.27 1988	73.7 300 1998 0.04 1988	82.0 482 1981 0.03 1994	28.2 143 1982 0.00 1994	41.6 748 1993 0.00 1999
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEA	R	FOR 2002	2 WATER Y	EAR	WATER YE	EARS 1980	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM INSTANTI ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY ME DAILY ME ASEVEN-DAY 1 PEAK FLO RUNOFF (I CENT EXCEE ZENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		98.5 4090 0.00 A 0.01  12.86 79 5.4 0.24	Apr 1 ug 7,20,2 Aug 1	1 3 1 0 6 0 5	88.1 580 .00 Aug 2 .00 800 800 .99 .00 Aug 1 .50 48 4.8	Ma; 2-17,Sep Au Ap Ap 1-19,Sep	y 7 3-30 g 2 r 27 r 27 3-30	74.0 188 15.1 7880 0.00 0.00 11800 22.25 0.00 9.67 85 3.8	Sep 2 Many Many May May Many	1993 1980 23 1993 7 Years 7 Years 7 1996 7 1996 7 Years

e Estimated

## 05507700 MARK TWAIN LAKE NEAR CENTER, MO

LOCATION.--Lat 39°31'29", long 91°38'37", sec.26, T.55 N., R.7 W., Ralls County, Hydrologic Unit 07110007, inside dam structure at mile 63.0 on Salt River.

DRAINAGE AREA. -- 2,318 mi<sup>2</sup>.

PERIOD OF RECORD.--1984 to current year. 1984 to Sept. 30, 1991, available in files at the U.S. Army Corps of Engineers.

GAGE.--Water stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,360,000 ac-ft, May 28-30, 1995, elevation, 636.22 ft, May 29; minimum, 386,000 ac-ft, Oct. 10, 1984, elevation, 596.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,290,000 ac-ft, May 16, elevation, 633.97 ft; minimum, 461,000 ac-ft, Sept. 28-30, elevation, 601.26 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 0800

					OBSE	KVALION A	11 0000					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	602.45 602.45 602.37 602.34 602.49	602.14 601.95 601.95 601.96 601.95	602.08 602.08 602.10 602.11 602.11	601.84 601.83 601.83 601.85 601.80	606.05 606.81 606.93 606.86 606.79	606.54 606.52 606.26 605.87 605.69	607.02 607.04 607.05 607.02 607.02	615.20 615.31 615.03 614.67 614.29	626.88 626.17 625.44 624.69 623.96	616.13 615.32 614.52 613.68 613.00	607.63 607.45 607.14 606.78 606.77	603.28 603.28 603.02 602.77 602.46
6 7 8 9	602.77 603.02 603.07 603.09 603.15	601.94 601.95 601.97 601.84 601.85	602.11 602.12 602.10 602.11 602.10	601.81 601.82 601.82 601.81 601.82	606.63 606.49 606.26 606.22 606.37	605.76 605.88 606.05 606.38 606.51	607.02 607.06 607.14 607.38 607.58	615.03 618.14 620.58 623.61 626.25	623.23 622.92 622.79 622.62 622.47	612.67 612.22 611.87 611.50 611.27	606.40 606.29 606.03 605.65 605.41	602.14 601.94 601.93 601.92 601.80
11 12 13 14 15	603.17 603.27 603.29 603.48 603.54	601.82 601.82 601.84 601.83	602.10 602.12 602.16 602.18 602.17	601.82 601.78 601.75 601.82 601.78	606.36 606.48 606.52 606.59 606.64	606.86 607.05 606.94 606.93 606.90	607.77 607.90 607.97 608.02 608.07	627.68 629.54 631.34 632.69 633.68	622.39 622.66 623.16 623.57 623.51	611.10 610.97 610.94 610.98 611.01	605.41 605.38 605.09 604.52 604.45	601.52 601.51 601.50 601.48 601.58
16 17 18 19 20	603.63 603.67 603.68 603.73 603.75	601.83 601.83 601.84 601.88	602.21 602.22 602.05 601.97 601.96	601.77 601.77 601.75 601.75 601.75	606.64 606.62 606.58 606.50 606.61	606.90 606.95 606.99 606.94 606.80	607.85 607.83 607.62 607.42 607.49	633.97 633.60 633.42 633.02 632.35	623.44 623.40 623.16 622.81 622.28	610.64 610.51 610.37 610.07 609.79	604.14 604.18 604.18 604.25 604.22	601.56 601.56 601.57 601.50 601.50
21 22 23 24 25	603.77 603.75 603.77 603.38 603.45	601.87 601.83 601.81 601.97 602.05	601.94 601.88 601.95 601.94 601.93	601.77 601.75 601.77 601.78 601.75	606.76 606.99 607.07 607.14 607.22	606.78 606.82 606.86 606.84 606.86	608.08 609.66 609.98 609.72 609.19	631.63 631.31 631.01 630.34 629.82	621.77 621.49 621.20 620.76 620.21	609.60 609.42 609.23 608.98 608.71	604.03 603.85 603.80 603.59 603.64	601.48 601.48 601.46 601.38 601.36
26 27 28 29 30 31	603.17 603.03 602.98 602.81 602.35 602.32	602.05 602.12 602.07 602.08 602.13	601.94 601.91 601.94 601.86 601.85 601.85	601.75 601.74 601.74 601.75 601.82 603.74	607.26 607.01 606.69 	606.91 606.89 606.92 606.90 606.98 607.01	609.27 609.25 612.59 614.30 615.07	629.30 628.95 628.50 627.86 627.68 627.56	619.56 618.94 618.22 617.47 616.81	608.34 608.16 608.16 608.17 608.18 607.90	603.66 603.60 603.30 603.30 603.29	601.35 601.35 601.26 601.26 601.26
MEAN MAX MIN	603.14 603.77 602.32	601.93 602.14 601.81	602.04 602.22 601.85	601.85 603.74 601.74	606.68 607.26 606.05	606.66 607.05 605.69	608.55 615.07 607.02	626.56 633.97 614.29	622.27 626.88 616.81	610.76 616.13 607.90	604.86 607.63 603.29	601.78 603.28 601.26

# 05507700 MARK TWAIN LAKE NEAR CENTER, MO--Continued

# RESERVOIR STORAGE, (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT $0800\,$

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	481000	476000	475000	471000	546000	555000	564000	742000	1050000	764000	576000	496000
2	481000	473000	475000	471000	560000	554000	565000	744000	1030000	745000	572000	496000
3	480000	473000	475000	471000	563000	550000	565000	738000	1010000	726000	567000	491000
4	480000	473000	476000	471000	561000	542000	564000	729000	991000	706000	560000	487000
5	482000	473000	476000	470000	560000	539000	564000	720000	970000	690000	559000	482000
6	487000	473000	476000	470000	557000	540000	564000	738000	949000	682000	552000	476000
7	491000	473000	475000	471000	554000	543000	565000	811000	940000	672000	550000	473000
8	492000	473000	476000	471000	550000	546000	567000	872000	936000	663000	546000	473000
9	492000	471000	475000	470000	549000	552000	571000	960000	931000	655000	538000	472000
10	493000	471000	476000	471000	551000	554000	575000	1040000	927000	651000	534000	470000
11	494000	471000	475000	471000	551000	561000	578000	1080000	924000	647000	534000	465000
12	495000	471000	476000	470000	554000	565000	581000	1130000	932000	644000	533000	465000
13	496000	471000	476000	469000	554000	563000	582000	1190000	947000	643000	528000	465000
14	499000	471000	477000	471000	556000	563000	583000	1240000	959000	644000	518000	465000
15	500000	471000	477000	470000	557000	562000	584000	1280000	957000	645000	516000	466000
16 17 18 19 20	502000 502000 503000 504000 504000	471000 471000 471000 472000 471000	477000 477000 475000 473000 473000	470000 470000 469000 469000 469000	557000 556000 556000 554000 556000	562000 563000 564000 563000 560000	580000 580000 575000 572000 573000	1290000 1280000 1270000 1260000 1230000	955000 954000 947000 936000 921000	637000 634000 631000 625000 619000	510000 511000 511000 513000 512000	466000 466000 466000 465000
21	504000	471000	473000	470000	559000	560000	585000	1200000	906000	615000	508000	465000
22	504000	471000	472000	469000	564000	560000	617000	1190000	898000	611000	506000	465000
23	504000	470000	473000	470000	565000	561000	624000	1180000	890000	608000	505000	464000
24	498000	473000	473000	470000	567000	561000	618000	1160000	877000	603000	501000	463000
25	498000	475000	473000	469000	568000	561000	607000	1140000	861000	597000	502000	463000
26 27 28 29 30 31	494000 491000 491000 488000 480000 479000	475000 476000 475000 475000 476000	473000 472000 473000 471000 471000 471000	469000 469000 469000 469000 471000 504000	569000 564000 558000 	562000 562000 562000 562000 564000 564000	609000 608000 680000 721000 739000	1120000 1110000 1100000 1080000 1080000 1070000	845000 830000 813000 795000 780000	590000 586000 586000 586000 587000 581000	502000 501000 496000 496000 496000	463000 463000 461000 461000 
MEAN	493000	473000	474000	471000	558000	557000	595000	1060000	922000	641000	524000	470000
MAX	504000	476000	477000	504000	569000	565000	739000	1290000	1050000	764000	576000	496000
MIN	479000	470000	471000	469000	546000	539000	564000	720000	780000	581000	496000	461000

## 05507800 SALT RIVER NEAR CENTER, MO

LOCATION.--Lat 39°34'26", long 91°34'15", near SE corner sec.4, T.55 N., R.6 W., Ralls County, Hydrologic Unit 07110007, on left bank at left downstream end of bridge on Highway A, 0.5 mi downstream from Clarence Cannon Dam, 5.0 mi northwest of Center, and at mile 53.1.

DRAINAGE AREA.--2,350 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1979 to current year. Prior to October 1979, gage height records only by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 500.00 ft above National Geodetic Vertical Datum of 1929. Prior to October 1979 nonrecording gage at same site and datum.

REMARKS.--Records fair except for those below 30  $\mathrm{ft}^3/\mathrm{s}$ , which are poor. U.S. Army Corps of Engineers satellite telemeter at station. Flow regulated by Clarence Cannon Dam, 0.5 mi upstream.

EXTREME OUTSIDE PERIOD OF RECORD.--Maximum gage height, 33.00 ft, Apr. 22, 1973, by U.S. Army Corps of Engineers.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE Y MEAN VA	EAR OCTOBER ALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	2120	62	52	1130	1060	56	2350	9620	7240	1640	59
2	56	577	61	51	3700	1700	54	3570	9740	8450	2160	1370
3	64	54	59	50	1990	2890	53	3810	9890	8540	2850	1870
4	67	52	56	50	1880	3190	59	4600	9690	8680	1370	2200
5	72	50	177	56	2100	768	54	4640	9190	6350	2050	2540
6	65	47		55	1690	60	54	6430	7970	3780	1950	1830
7	64	45		53	2370	60	53	5480	914	4080	1810	413
8	62	49		50	1200	255	367	4850	1840	3440	2410	56
9	61	62		49	37	415	892	5360	2280	3240	2820	610
10	61	62		48	37	1250	59	6480	1890	2270	218	1780
11	63	62	47	259	34	60	50	8470	1300	1680	59	337
12	64	61	47	95	34	969	51	7740	3400	1110	1720	57
13	64	60	46	47	34	1330	49	7730	1830	438	1910	56
14	63	59	47	46	32	1270	47	9560	1430	61	4060	56
15	70	58	51	46	193	417	1880	11300	2840	2100	1810	137
16	963	59	51	47	110	1330	729	10300	2160	2750	650	296
17	497	59	290	48	64		1870	11100	2040	2140	68	35
18	1750	58	2070	48	1180		2080	12000	4680	2160	67	19
19	682	58	624	52	688		112	11900	5030	2870	68	58
20	59	56	46	50	64		54	11800	6580	2630	1510	58
21	57	53	448	48	63	62	97	9960	6090	1840	1370	57
22	354	51	83	46	273	58	3540	3910	2210	1910	2200	58
23	1340	50	53	45	77	56	5920	7450	4720	2770	1900	183
24	2820	54	51	49	59	58	5740	10400	5970	2500	873	60
25	202	51	50	60	62	59	3510	10300	7280	2970	64	58
26 27 28 29 30 31	2120 448 328 2660 2600 639	50 48 49 49 49	48 47 105 181 56 54	57 55 59 55 66 1580	1170 2330 2960 	56 61 60 62 61 61	1570 3280 2270 1410 2380	11300 10500 10400 9210 2230 6160	7040 7180 8300 8360 7420	2800 333 59 59 1630 3090	547 1820 687 62 61 60	57 335 70 57 1100
MEAN MAX MIN IN.	596 2820 50 0.29	140 2120 45 0.07	167 2070 46 0.08	109 1580 45 0.05	913 3700 32 0.40	624 3190 56 0.31	1278 5920 47 0.61 BY WATER	7784 12000 2230 3.82	5296 9890 914 2.52	3031 8680 59 1.49	1318 4060 59 0.65	529 2540 19 0.25
MEAN	1039	1340	1760	994	1780	2751	2302	2742	2713	2900	1475	1002
MAX	9085	6038	10360	3703	8098	10530	10310	7784	10560	10810	7895	7902
(WY)	1994	1987	1983	1986	1982	1985	1983	2002	1995	1981	1993	1993
MIN	4.62	14.8	31.4	30.5	81.6	87.0	99.4	67.5	126	75.2	13.9	25.3
(WY)	1980	1981	1980	1980	1989	1989	2000	1989	1988	1983	1980	1983
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 1980	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM INSTANTI ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY I PEAK FLO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		9510 36 48  11.26 5940 990 53	Feb Sep Dec	12	1823 12000 19 48 13600 15.99 13 10.53 6450 328 49	May Sep Jan May May Sep	18 18 13 15 15	1901 3462 283 65600 0.44 0.65 72800 32.62 0.44 10.99 5730 440	our .	1993 1989 29 1981 11 1979 11 1979 29 1981 29 1981 14 1979

# 05508000 SALT RIVER NEAR NEW LONDON, MO

LOCATION.--Lat 39°36'44", long 91°24'30", in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.36, T.56 N., R.5 W., Ralls County, Hydrologic Unit 07110007, on left bank near downstream end of bridge on north bound side of dual U.S. Highway 61, 9.9 mi downstream from Clarence Cannon Dam, 2.0 mi north of New London, 8.0 mi upstream from Spencer Creek, and at mile 35.5.

DRAINAGE AREA. -- 2,480 mi<sup>2</sup>, approximately.

PERIOD OF RECORD. -- February 1922 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 477.03 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 7, 1931, nonrecording gage 400 ft upstream at datum 0.03 ft higher; Apr. 7, 1931 to Jan. 17, 1935, nonrecording gage at site 180 ft upstream at datum 0.04 ft lower; Jan. 17, 1935 to April 1985, water-stage recorder 400 ft upstream same datum

REMARKS.--Records good. U.S. Army Corps of Engineers satellite telemeter at station. Flow mostly regulated by Clarence Cannon Dam, 9.9 mi upstream, since September 1979. Five percent of the drainage area, 130 mi², is natural drainage not regulated.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 107,000 ft<sup>3</sup>/s, Apr. 22, 1973; gage height, 31.8 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 14, 1858, reached a stage of 27.6 ft, present site and datum, based on comparison of June 1928 flood crest at stone marker, 1.0 mi downstream of gage.

		DISCHA	RGE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER	R 2001 TC	) SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	1740	63	64	1320	1490	102	2530	10600	7740	2110	87
2	57	1520	75	61	4000	1180	99	3210	10800	9080	1860	274
3	64	112	73	58	2540	2810	90	4320	10900	9170	2820	1670
4	74	71	71	58	2030	3630	88	4720	11000	9420	2830	2120
5	218	65	68	61	2000	1650	96	4760	10200	7400	682	2630
6	160	60	190	69	2000	306	97	10700	9540	3750	2770	2430
7	94	56	70	63	1990	166	102	9880	1810	4220	1260	1370
8	83	51	62	64	1870	142	261	5480	1840	3760	2080	148
9	78	53	57	62	356	427	1140	8070	2350	3570	3390	89
10	87	71	55	61	101	1500	767	6370	1980	2380	1610	965
11	89	70	52	57	83	347	166	11500	1610	2120	118	1770
12	225	70	56	302	77	143	138	9270	3270	1410	391	114
13	152	70	61	83	69	2160	122	8770	2800	1400	2140	85
14	239	68	61	64	66	852	113	10100	1640	134	4770	80
15	124	66	61	59	141	1140	776	12000	2850	798	1090	88
16	819	66	65	59	168	145	1530	12200	2300	3000	2090	319
17	328	65	183	63	151	121	1020	12300	1850	2110	186	165
18	1660	65	1320	63	528	115	2400	13800	4300	2120	116	59
19	973	68	1280	64	1230	740	1360	13500	5230	2910	120	23
20	323	60	295	67	424	2000	146	13400	6990	2790	270	71
21	94	59	75	65	185	296	1420	12600	6570	2010	1650	75
22	244	56	511	61	141	115	2230	4280	2900	1770	1910	73
23	416	53	119	60	347	109	6040	6790	4380	2400	2440	71
24	3300	235	86	55	130	109	6000	11900	5830	2580	2470	201
25	657	134	76	59	117	110	5550	11000	7730	2920	154	81
26 27 28 29 30 31	1380 1320 280 1530 3450 435	87 73 62 62 62	71 68 65 231 104 70	75 72 70 73 276 3650	464 2200 2970  	105 101 107 108 106 104	798 6030 3880 1380 2660	12600 12200 11400 11800 3150 4490	7530 7530 8940 9000 7930	2960 2030 126 101 413 2840	105 861 2190 167 98 90	75 72 353 88 106
MEAN	614	178	184	194	989	724	1553	9003	5740	3207	1446	525
MAX	3450	1740	1320	3650	4000	3630	6040	13800	11000	9420	4770	2630
MIN	57	51	52	55	66	101	88	2530	1610	101	90	23
IN.	0.29	0.08	0.09	0.09	0.42	0.34	0.70	4.19	2.58	1.49	0.67	0.24
							, BY WATER					
MEAN	1066	1458	1879	1081	1927	2940	2465	2936	2807	3010	1554	1053
MAX	9165	6406	11100	4001	8787	10810	10660	9003	10950	11900	7961	8300
(WY)	1994	1986	1983	1985	1982	1985	1983	2002	1995	1981	1993	1993
MIN	16.9	18.4	48.6	37.1	84.9	90.2	114	93.4	128	88.4	42.8	28.5
(WY)	1980	1981	1980	1981	1989	1989	2000	1989	1988	1983	1983	1983
SUMMAR	Y STATISTI	ICS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	EARS 1980	- 2002 <sup>a</sup>
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERO 50 PERO	MEAN I ANNUAL ME ANNUAL ME DAILY ME DAILY ME SEVEN-DAY M PEAK FLC M PEAK STI TANEOUS LC RUNOFF (1) CENT EXCEE CENT EXCEE CENT EXCEE	EAN EAN AN MINIMUM OW AGE DW FLOW INCHES) EDS		9900 49 58  11.10 5830 1130 66	Feb Sep Dec	5	2039 13800 23 58 15800 15.14 17 11.16 7450 323 63	May Sep Dec May May Sep	19 9 6 6	2016 3577 307 62100 9.5 9.6 74200 31.09 9.5 11.05 5910 522 58	Nov : Nov : Jul : Jul :	1993 1989 30 1981 20 1980 20 1980 29 1981 29 1981 21 1980

 $<sup>^{\</sup>mathrm{a}}$  Post-regulation period.

# 05508805 SPENCER CREEK BELOW PLUM CREEK NEAR FRANKFORD, MO

LOCATION.--Lat 39°31'13", long 91°20'32", in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.27, T.55 N., R.4 W., Ralls County, Hydrologic Unit 07110007, on left bank 25 ft downstream from bridge on dual U.S. Highway 61, 0.75 mi downstream from Plum Creek, 2.5 mi northwest of Frankford, and at mile 4.5.

DRAINAGE AREA.--206 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1, 1979 to current year. Mar. 27, 1930 to September 1978, fragmentary record.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 485.00 ft above National Geodetic Vertical Datum of 1929.
Mar. 24, 1930, to Sept. 30, 1936, nonrecording gage at site 0.75 mi upstream at datum 3.63 ft higher; Oct. 7, 1961, to July 15, 1974, fragmentary record, at present site, datum unknown; July 26, 1974, to Apr. 15, 1975, from nonrecording gage present site and datum.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBI	C FEET PER		WATER YE Y MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.8 7.7 7.6 7.5 46	18 18 18 17	22 23 23 20 18	14 13 12 11	1060 293 179 127 96	23 38 54 50 57	24 22 18 16 15	629 439 229 167 139	79 61 51 45 41	16 14 14 14 13	2.4 2.1 1.9 1.9 2.1	2.7 2.5 1.9 1.4 1.2
6 7 8 9 10	77 37 23 18 16	16 16 16 15 15	16 14 14 13 12	11 11 11 11 12	79 68 59 54 49	191 176 123 144 132	14 14 326 386 167	8010 4920 1190 3440 594	39 35 32 30 28	11 9.9 9.4 10 55	1.6 1.3 1.3 1.5	0.93 0.55 0.45 0.52 0.51
11 12 13 14 15	19 182 131 187 104	14 14 15 14	12 13 31 57 50	12 11 11 11 10	42 38 32 29 26	90 72 62 54 50	108 81 66 58 52	2940 1790 2400 429 254	186 567 2230 396 149	98 30 19 13 11	1.3 1.2 1.1 1.4	0.42 0.44 0.42 0.41 0.76
16 17 18 19 20	129 89 57 36 31	14 13 13 14 13	42 48 73 51 35	9.8 9.8 10 12	23 20 19 22 114	43 38 34 34 41	45 38 33 62 437	303 989 871 276 183	90 66 55 47 41	9.3 8.4 8.3 9.0 7.9	0.91 1.0 1.7 9.3	0.98 0.94 0.98 1.6 1.8
21 22 23 24 25	26 22 23 23 26	13 13 13 273 152	28 48 91 60 37	12 11 12 14 14	124 76 58 47 38	39 32 30 28 31	2130 567 211 148 126	144 121 104 151 113	36 32 29 26 24	7.1 16 20 7.6 5.3	7.4 4.0 45 62 49	2.0 2.0 1.6 1.6
26 27 28 29 30 31	23 20 19 19 19	69 44 31 26 23	31 25 21 19 16 15	13 13 13 13 169 5170	32 25 24 	32 33 34 32 30 26	92 4790 3140 453 285	94 87 117 103 489 147	105 36 29 23 19	4.7 4.3 3.7 3.5 3.0 2.7	24 14 8.7 6.1 4.5 3.5	1.7 1.8 1.6 1.5 1.4
MEAN MAX MIN IN.	46.9 187 7.5 0.26	32.0 273 13 0.17	31.6 91 12 0.18	183 5170 9.8 1.03	102 1060 19 0.52	59.8 191 23 0.33	464 4790 14 2.51	1028 8010 87 5.75	154 2230 19 0.84	14.8 98 2.7 0.08	9.12 62 0.91 0.05	1.28 2.7 0.41 0.01
				OR WATER Y								
MEAN MAX (WY) MIN (WY)	44.6 376 1987 0.22 1989	176 1310 1986 0.48 1990	162 985 1983 1.67 1990	118 453 1999 2.58 1980	219 766 1985 3.40 1980	202 738 1984 9.23 1981	257 919 1994 14.3 2000	296 1028 2002 15.1 1988	133 451 1982 2.23 1988	164 1788 1981 0.84 1988	62.4 290 1995 0.96 1994	84.9 1402 1993 0.32 1988
SUMMAR	Y STATISTI	CS	FO	R 2001 CAL	ENDAR YEA	AR	FOR 2002	WATER YEA	R	WATER Y	EARS 1980	- 2002
LOWEST HIGHES' LOWEST ANNUAL MAXIMUI MAXIMUI INSTAN' ANNUAL 10 PER( 50 PER(	MEAN T ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY M PEAK FIC M PEAK STA TANEOUS LC RUNOFF (I CENT EXCER CENT EXCER CENT EXCER	AN AN AN MINIMUM W GE GE WW FLOW NCHES)		133 4900 0.70 1.0  8.77 130 21 2.7	Jan : Aug : Aug	22	8010 0.41 0.45 13100 15.91 0.32 11.73 189 23	May Sep 1 Sep May May Sep 1	4 8 6 6	160 355 33.1 15600 0.08 0.10 20300 18.54 0.00 10.52 227 23 1.2	Aug 1 Sep 2 Sep 2	1993 2000 8 1981 4 1989 7 1990 2 1993 2 1993 s 1989

74 CUIVRE RIVER BASIN

#### 05514500 CUIVRE RIVER NEAR TROY, MO

LOCATION.--Lat 39°00'59", long 90°59'00", in SE ½ sec.14, T.49 N., R.1 W., Lincoln County, Hydrologic Unit 07110008, on downstream side of right end of downstream bridge on dual U.S. Highway 61, 1.2 mi downstream from confluence of North Fork and West Fork Cuivre Rivers, and 2.0 mi north of Troy.

DRAINAGE AREA. -- 903 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- February 1922 to July 1972, May 1979 to current year.

REVISED RECORDS.--WSP 855: 1933(m), 1935(m), 1937(m). WSP 895: 1939. WSP 1005: 1942(m). WSP 1308: 1922-25(m).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 450.27 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1930, nonrecording gage at site 3 mi downstream at datum 4.31 ft lower; Oct. 1, 1930, to July 1939, nonrecording gage at present site and datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

REMARKS.--Water-discharge records fair. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—The highest flood since 1888 was the flood of December 1895 which was 5 to 6 ft lower at Frenchmens Bluff, 3.0 mi downstream, than the October 1941 flood, which reached a stage of 33.40 ft.

DAILY MEAN VALUES DAY SEP OCT NOV DEC JAN FEB APR MAY AUG 9.6 7 9.0 9.9 8.6 9.0 8.6 8.4 8.3 8.3 7.8 8.7 6.2 31 376 308 8.9 18 5.6 5.4 5.3 6.1 6.6 e170 78 57 8 8 8.2 7.8 7.1 7.2 6.4 MEAN 53.9 12.8 MAX MTN 8 3 5 3 0.46 0.28 0.75 0.66 0.79 7.02 1.20 0.17 0.90 0.07 0.02 1.95 IN. STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY) MEAN MAX (WY) MIN 0.10 1.30 1 11 1.63 1 80 2 51 25 8 17 1 11 0 0.44 0.23 0 24 (WY) SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR FOR PERIOD OF RECORD ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 27.3 HIGHEST DAILY MEAN Feb 25 Oct 5 1941 May Sep 14 5.3 5.8 LOWEST DAILY MEAN 13 Aug 23,Oct 4 0.00 Several Years ANNUAL SEVEN-DAY MINIMUM Sep 11 0.00 Aug 17 At Times MAXIMUM PEAK FLOW Oct 5 1941 Oct 5 1941 May MAXIMUM PEAK STAGE \_\_\_ 27.47 May 33.40 4.4 INSTANTANEOUS LOW FLOW Sep 14 0.00 Several Years ANNUAL RUNOFF (INCHES) 14.27 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 6.0

e Estimated

# CUIVRE RIVER BASIN 75

# 05514500 CUIVRE RIVER NEAR TROY, MO--Continued (Ambient Water-Quality Monitoring Network)

# WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to current year.

REMARKS.--National Stream-Quality Accounting Network station October 1986 through September 1994. Ambient Water-Quality Monitoring Network station October 1994 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 14	1300	ENVIRONM	ENTAL	31	13.2	123	7.6	390	11.2	180	56.6	9.44	3.43
JAN 15	1150	ENVIRONM	ENTAL	62	14.1	104	7.1	273	2.5				
MAR 12	1200	ENVIRONM	ENTAL	451	8.8	77	7.7	344	8.9				
MAY 15	0900	ENVIRONM	ENTAL	2200	7.9	80	7.5	257	15.3	110	36.4	5.20	4.03
JUL 10	0750	ENVIRONM	ENTAL	36	5.0	67	7.4	397	29.1				
SEP 04	1140	ENVIRONM	ENTAL	12	7.4	92	7.5	337	26.3				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 14 JAN	11.9	150	152	186	0	15.9	.2	19.7	20	230	<.04	.47	<.05
15 MAR		176	175	213	0				<10		E.02	.28	1.47
12 MAY		102	103	125	0				38		<.04	.92	1.21
JUL	5.42	102	102	124	0	6.29	.2	13.8	162	188	.05	.89	1.48
10 SEP		164	168	205	0				42		<.04	.68	.06
04		134	134	164	0				19		<.04	.65	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV										_		_	
14 JAN	<.008	<.06	<.02	E.05	K16	K15	36	19	84	.6	<.04	<.1	<6
15 MAR	E.004	<.06	<.02	E.03	К6	21	26						
12 MAY	.020	.10	.05	.19	K24	K253	192						
JUL	.034	.18	.13	.30	680	K1350	980	391	2360	1.2	E.02	<.1	<6
10 SEP	<.008	<.06	<.02	.06	K100	153	240						
04	<.008	<.06	<.02	.09	K50	K50	112						

76 CUIVRE RIVER BASIN

# 05514500 CUIVRE RIVER NEAR TROY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
14	146	E.07	<1	217	< .01	E.2		4
JAN								
15								
MAR								
12								
MAY								
15	282	.75	5	76.5	.02	.6		12
JUL								
10								
SEP								
04								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 05514840 DARDENNE CREEK AT O'FALLON, MO

LOCATION.--Lat  $38^{\circ}44^{\circ}26^{\circ}$ , long  $90^{\circ}41^{\circ}42^{\circ}$ , in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.16, R.46 N., R.3 E., St. Charles County, Hydrologic Unit 07110009, attached to downstream side of State Highway K bridge, 4.2 mi south of Interstate 70.

DRAINAGE AREA.--61.0 mi<sup>2</sup>.

PERIOD OF RECORD.--Nov. 18, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.3 2.3 1.1 1.3	6.1 7.6 5.8 6.2 6.0	90 48 35 30 22	12 12 11 11	462 185 120 83 63	21 419 187 88 72	54 54 52 39 30	59 55 46 34 29	22 19 19 17 60	11 16 26 14 12	5.0 4.2 4.1 4.1 4.4	2.3 1.7 1.7 1.5 1.4
6 7 8 9 10	5.7 2.1 1.7 1.6 175	4.9 3.9 3.7 e4.5 e5.0	17 14 13 12 9.6	12 11 11 11 11	52 44 37 32 32	89 58 48 180 90	27 26 204 170 84	44 737 756 1040 226	33 20 17 16 29	10 8.1 8.1 15 90	7.5 5.6 4.0 3.8 3.7	1.4 1.5 2.0 2.1 1.9
11 12 13 14 15	104 62 37 21 58	e6.1 e5.9 5.7 4.6 3.6	8.2 34 130 98 65	11 12 11 11 9.2	27 26 22 20 21	62 54 46 37 63	58 48 43 38 35	129 1270 1730 280 157	83 2330 291 145 88	40 45 14 10 9.6	4.0 4.7 9.4 23 7.7	1.6 1.5 1.5 4.7 5.5
16 17 18 19 20	110 30 13 7.2 5.6	3.7 3.4 3.4 4.2 8.4	567 869 228 118 80	8.6 8.3 7.3 8.9 8.7	19 17 16 57 128	72 52 50 91 145	33 33 30 223 940	270 537 329 144 91	58 51 35 27 23	8.9 14 30 22 12	5.5 5.0 49 9.0 5.0	2.4 62 16 118 54
21 22 23 24 25	4.5 6.1 7.2 172 94	3.6 3.1 2.9 491 77	51 60 52 36 27	9.0 7.9 9.2 14 11	58 39 31 27 26	83 56 45 39 299	611 224 125 90 92	68 56 48 47 45	21 19 17 16 15	9.2 13 27 9.7 7.1	3.9 2.8 14 5.4 3.6	15 9.0 7.1 5.9 5.1
26 27 28 29 30 31	28 15 11 9.3 7.6 6.7	39 34 70 223 307	22 22 22 19 15	10 8.9 8.3 20 423 1570	28 22 20 	311 340 223 123 92 68	60 333 218 97 69	37 32 30 30 28 24	14 13 12 11 11	6.1 5.8 5.4 4.7 4.6 4.5	3.0 2.6 2.3 1.9 1.7 2.2	4.8 4.8 5.8 4.1 4.0
MEAN MAX MIN	33.4 175 1.1	45.1 491 2.9	91.2 869 8.2	74.2 1570 7.3	61.2 462 16	116 419 21	138 940 26	271 1730 24	118 2330 11	16.5 90 4.5	6.84 49 1.7	11.7 118 1.4
STATIST	rics of M	ONTHLY MEA	AN DATA FO	R WATER Y	EARS 2000	- 2002,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	20.2 33.4 2002 6.93 2001	27.4 45.1 2002 9.72 2001	40.7 91.2 2002 4.14 2001	33.3 74.2 2002 3.84 2000	74.3 101 2001 61.2 2002	57.2 116 2002 22.9 2000	74.2 138 2002 20.1 2000	135 271 2002 10.5 2001	134 220 2000 65.3 2001	16.2 23.1 2000 8.97 2001	10.4 17.8 2000 6.72 2001	6.30 11.7 2002 3.37 2001
SUMMARY	MARY STATISTICS FOR 20				ENDAR YEA	R	FOR 2002 V	VATER YEA	AR.	WATER YE	ARS 2000	- 2002
HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	SUMMARY STATISTICS  ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			39.8 1260 1.1 1.6  71 9.7 2.3	Feb 2 Oct Sep 2	3	2330 1.1 1.6 4100 16.28 0.85 177 21 3.7	Jun 1 Oct Sep Jun 1 Jun 1 Oct	3 2 12 12	54.7 82.2 27.2 4140 0.86 1.3 5770 19.14 0.53 92 11 2.6	Sep 2 Sep 1 Jun 2 Jun 2	2002 2001 24 2000 20 2000 17 2000 24 2000 24 2000 20 2000

e Estimated

# 05514860 DARDENNE CREEK AT OLD TOWN ST. PETERS, MO

LOCATION.--Lat 38°48'12", long 90°38'06", in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.24, R.47 N., R.3 E., St. Charles County, Hydrologic Unit 07110009, on left bank 0.6 mi upstream from State Highway C.

DRAINAGE AREA.--102 mi<sup>2</sup>.

PERIOD OF RECORD.--Nov. 18, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair. U.S.G.S. satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE	EAR OCTOBER	2001 TO	SEPTEMBE:	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.52 0.57 0.45 0.45 86	5.8 9.5 8.7 6.1 5.3	101 49 34 29 24	17 16 15 15 16	1390 211 131 97 77	30 710 227 94 84	66 60 58 49 39	69 65 57 43 38	18 16 14 13 317	6.0 9.4 21 15 6.5	1.4 1.2 0.87 0.84 0.74	1.1 1.4 0.92 1.6 0.98
6 7 8 9 10	21 4.8 2.4 1.9 501	5.4 5.7 6.0 6.8 7.3	19 16 14 14	16 15 15 15 15	65 55 46 41 42	94 69 58 244 104	36 34 284 199 91	85 1690 1600 2050 303	46 19 15 11 170	6.3 4.9 4.6 5.0 84	33 3.6 1.4 0.84 0.64	1.6 1.1 1.4 1.0 1.3
11 12 13 14 15	262 239 47 37 74	9.0 9.0 10 10	11 73 170 142 73	15 16 16 15 14	37 34 31 29 28	71 63 55 46 85	66 55 51 44 41	146 1970 3810 630 300	260 3830 1660 219 105	56 53 13 5.6 3.7	0.53 0.51 12 174 48	0.77 0.51 0.63 11 61
16 17 18 19 20	242 35 16 11 8.1	8.0 7.1 7.3 11 13	1080 2180 316 125 80	13 14 12 15 17	27 25 23 89 133	92 62 52 108 154	37 40 34 245 2480	519 1040 950 241 130	60 43 34 23 17	3.9 4.3 36 19 8.6	24 8.0 207 54 8.4	3.3 97 89 967 568
21 22 23 24 25	6.6 6.1 7.8 240 165	12 8.9 8.2 1170 103	53 82 57 39 31	15	69 47 39 35 33	89 63 52 46 466	1180 280 135 109 101	77 57 50 52 45	15 13 11 9.2 8.1	4.7 3.5 83 7.4 4.7	4.0 2.8 78 30 4.5	130 43 15 8.9 4.4
26 27 28 29 30 31	29 15 11 8.9 8.6 7.7	47 39 134 313 492	27 25 25 23 28 20	16 14 13 33 744 3410	39 32 27 	434 549 267 131 100 77	72 709 316 109 82	36 30 27 29 25 22	8.2 7.0 6.6 6.0 6.2	2.9 1.9 1.8 1.9 1.5	2.9 2.3 1.8 1.7 1.7	4.1 3.8 3.5 3.7 3.2
MEAN MAX MIN	67.6 501 0.45	83.0 1170 5.3	160 2180 11	150 3410 12	105 1390 23	154 710 30	237 2480 34	522 3810 22	233 3830 6.0	15.5 84 1.5	23.0 207 0.51	67.7 967 0.51
STATIS	TICS OF M	ONTHLY MEA	N DATA FO	R WATER YI	EARS 2000	- 2002,	BY WATER	YEAR (W)	()			
MEAN MAX (WY) MIN (WY)	47.3 67.6 2002 27.0 2001	57.8 83.0 2002 32.6 2001	71.6 160 2002 7.16 2001	70.1 149 2002 6.85 2000	139 193 2001 105 2002	81.9 154 2002 33.2 2000	134 237 2002 31.1 2000	254 522 2002 30.0 2001	269 425 2000 149 2001	30.7 52.6 2000 15.5 2002	26.6 45.3 2000 11.4 2001	31.5 67.7 2002 5.76 2001
SUMMAR	Y STATIST	rics	FOR	2001 CAL	ENDAR YEA	R	FOR 2002 1	WATER YE	EAR	WATER Y	EARS 2000	0 - 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN 10 PER 50 PER	T ANNUAL 'ANNUAL M T DAILY ME 'DAILY ME	IEAN IEAN IEAN IAN IY MINIMUM IOW IEAGE IOW FLOW IEDS IEDS		3050 0.45 0.68  120 18 2.9	Jun 1 Oct 3, Sep 2	4	3830 0.45 0.96 4800 19.44 0.30 272 29	Jun Oct 3 Sep Jun Jun Oct	12 3,4 7 12 12	106 152 59.2 4670 0.45 0.68 6370 22.14 0.30 157 17	Jun Oct 3 Sep Jun Jun Oct	2002 2001 24 2000 3,4 2001 28 2001 24 2000 24 2000 3 2001

# 384304090441801 BURGERMEISTER SPRING NEAR WELDON SPRING, MO

LOCATION.--Lat  $38^{\circ}43^{\circ}04^{\circ}$ , long  $90^{\circ}44^{\circ}18^{\circ}$ , in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.30, T.46 N., R.03 E., St. Charles County, Hydrologic Unit 07110009, on right bank, 70 ft downstream of spring orifice, 0.1 mi upstream of August A. Busch Wildlife Area Lake 34, and 2.5 mi west of Weldon Spring.

RECHARGE AREA. -- 1.0 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1986 to current year. Record from May 1986 to September 1989 published in U.S. Geological Survey Open-File Report 90-552 and record from October 1989 to September 1995 published in U.S. Geological Survey Open-File Report 95-463.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 528 ft above sea level, from topographic map. REMARKS.--Water-discharge records good.

		DISCHAF	RGE, CUBI	C FEET PER		WATER YE	EAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.03 0.05 0.05 0.05 0.16	0.07 0.05 0.05 0.05 0.04	e0.35 e0.30 e0.25 e0.21 e0.18	e0.14 e0.13 e0.12 e0.15 e0.10	0.48 0.42 0.40 0.37 0.36	0.17 0.36 0.40 0.38 0.37	0.37 0.38 0.36 0.34 0.30	0.37 0.37 0.37 0.37 0.37	e0.28 e0.27 e0.27 e0.28 e0.38	0.09 0.08 0.08 0.07 0.06	0.06 0.06 0.05 0.05	0.04 0.04 0.04 0.04 0.05
6 7 8 9 10	0.28 0.07 0.05 0.04 0.23	0.04 0.04 e0.04 e0.04 e0.04	0.17 0.13 0.11 0.10 0.09	e0.09 e0.09 e0.08 e0.07 e0.06	0.36 0.34 0.34 0.32 0.26	0.39 0.37 0.36 0.43 0.45	0.28 0.27 0.36 0.40 0.39	0.43	e0.37 0.35 0.29 0.23 0.19	0.06 0.06 0.05 0.05 0.14	0.06 0.06 0.06 0.06 0.06	0.05 0.04 0.05 0.07 0.05
11 12 13 14 15	0.35 0.38 0.30 0.32 0.20	e0.04 e0.05 e0.05 e0.05 e0.04	0.08 0.14 0.37 0.37 0.36	e0.06 0.05 0.05 0.05 0.05	0.21 0.21 0.19 0.19 0.18	0.37 0.36 0.36 0.36 0.36	0.38 0.37 0.36 e0.36 e0.34	e0.35 e0.39 e0.43 e0.38 e0.36	0.21 0.37 0.29 0.29 0.28	0.32 0.20 0.11 0.09 0.07	0.05 0.05 0.06 0.11 0.15	0.06 0.04 0.04 0.05 0.06
16 17 18 19 20	0.35 0.27 0.16 0.10 0.08	e0.04 e0.04 e0.04 e0.04 e0.06	0.42 0.45 0.32 0.29 0.28	0.04 0.04 0.04 0.04 0.04	0.17 0.15 0.14 0.24 0.44	0.39 0.38 0.38 0.39 0.39	e0.33 e0.32 0.30 0.33 0.45	e0.37 e0.39 e0.36 e0.34 e0.33	0.27 0.26 0.24 0.21 0.18	0.06 0.06 0.06 0.05	0.09 0.08 0.19 0.28 0.16	0.04 0.16 0.33 0.29 0.29
21 22 23 24 25	0.06 0.06 0.06 0.10 0.30	e0.38			0.40 0.37 0.36 0.35 0.32	0.38 0.36 0.36 0.34 0.38	0.43 0.40 0.39 0.37 0.37	e0.32 e0.31 e0.31 e0.31 e0.30	0.17 0.15 0.15 0.14 0.13	0.05 0.06 0.11 0.10 0.06	0.10 0.08 0.17 0.30 0.19	0.29 0.26 0.16 0.10 0.09
	0.18 0.37 0.26 0.12 0.09	e0.18 e0.14 e0.17 e0.31 e0.47	0.24 0.21 0.21 e0.19 e0.17 e0.16	0.08 0.06 0.06 0.08 0.41 0.59	0.28 0.25 0.19 	0.38 0.40 0.41 0.39 0.38 0.37	0.37 0.38 0.38 0.37 0.37	e0.29	0.13 0.12 0.11 0.10 0.09	0.06 0.06 0.06 0.06 0.06	0.13 0.08 0.05 0.05 0.04 0.04	0.08 0.08 0.07 0.05 0.05
MEAN MAX MIN	0.17 0.38 0.03	0.10 0.47 0.03	0.24 0.45 0.08	0.10 0.59 0.04	0.30 0.48 0.14	0.37 0.45 0.17	0.36 0.45 0.27	0.35 0.43 0.28	0.23 0.38 0.09	0.08 0.32 0.05	0.10 0.30 0.04	0.10 0.33 0.04
STATIST	rics of M	ONTHLY MEA	AN DATA F	OR WATER Y	EARS 1985	- 2002,	BY WATER	YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	0.14 0.33 1994 0.05 1998	0.20 0.44 1995 0.03 2000	0.25 0.48 1994 0.03 1999	0.28 0.42 1994 0.03 2000	0.31 0.44 1999 0.10 1996	0.35 0.44 1989 0.12 2001	0.38 0.58 1994 0.12 2000	0.31 0.52 1995 0.11 2001	0.25 0.42 1985 0.09 1991	0.17 0.39 1997 0.08 2001	0.13 0.25 1993 0.06 1996	0.10 0.34 1993 0.04 1999
SUMMARY	Y STATIST	ICS	FO	R 2001 CAL	ENDAR YEA	ıR	FOR 2002	WATER YE	AR	WATER YE	ARS 1985	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC	C ANNUAL	EAN EAN AN Y MINIMUM OW AGE OW FLOW EDS EDS		0.16 0.52 0.03 Se 0.03 0.37 0.09 0.04	Jun 1 veral Day Sep 2	5 's '5	0.21 0.59 0.03 Oc 0.04 0.68 2.32 0.02 0.38 0.19 0.05	Jan et 1,Nov Nov Jun 11, Jun 11, Aug	31 23 5 12 12 12 28	0.24 0.33 0.13 0.92 0.02 0.02 0.92 2.70 0.02 0.46 0.19	Apr 1 Oct Nov 2 Apr 1 May Sep 3	1994 2000 1 1994 4 1998 29 1998 1 1994 7 2000 30 1999

e Estimated

## 384304090441801 BURGERMEISTER SPRING NEAR WELDON SPRING, MO--Continued

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.-- July 1987 to current year. Record from July 1987 to September 1989 published in U.S. Geological Survey Open-File Report 90-552 and record from October 1989 to September 1995 published in U.S. Geological Survey Open-File Report 95-463.

GAGE. -- Specific conductance mini-monitor.

REMARKS.--Daily specific conductance records good. During extreme cold when other surface-water bodies are frozen, the pond created behind the weir remains unfrozen because of the warmer spring water. Ducks will visit the pond during these times, stirring up the water and sediments causing specific conductance increases. This was observed in the record between December 26 and January 13.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily mean 1,130 microseimens per centimeter, many days in Aug. and Sept. 1991; minimum daily mean, 70 microseimens per centimeter, Jan. 21 and 22, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum daily mean, 838 microseimens per centimeter, Nov. 23; minimum daily mean, 198 microseimens per centimeter, May 13.

SPECIFIC CONDUCTANCE, in  $\mu\text{S/cm}$  @  $25^{\circ}\text{C}$ , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1	803	778	787	591	533	566	309	300	305	412	374	386
2	809	789	800	631	591	612	326	309	317	456	381	398
3	820	803	812	664	630	648	346	326	336	524	386	428
4	825	809	816	687	661	675	363	346	353	467	429	440
5	820	721	790	707	685	697	374	357	364	497	442	462
6	815	483	535	727	703	716	406	374	392	499	462	477
7	530	495	513	743	727	735	446	406	424	572	466	495
8	581	529	555	752	740	746	481	444	463	524	479	499
9	619	580	602	763	748	755	498	474	485	530	492	512
10	703	428	576	780	758	763	537	483	494	582	514	540
11	539	424	465	786	763	773	528	494	511	592	485	556
12	556	419	457	785	773	779	538	181	478	602	564	581
13	510	439	471	799	777	787	519	310	376	607	580	595
14	545	447	489	798	776	792	320	307	312	634	584	609
15	499	324	474	802	787	797	321	300	307	655	626	641
16	541	252	449	807	792	801	329	271	298	663	635	654
17	461	411	429	812	796	805	271	250	257	673	640	661
18	497	451	475	815	792	808	273	253	264	686	656	671
19	541	492	519	820	805	811	280	269	275	690	655	674
20	571	534	558	822	795	811	300	278	287	708	671	692
21	603	570	588	824	806	817	307	290	300	713	687	702
22	631	602	617	828	792	820	319	299	308	720	690	706
23	653	622	641	838	811	824	299	279	284	726	664	708
24	674	581	656	811	182	472	305	281	289	719	682	702
25	701	441	554	337	322	326	330	305	317	728	690	714
26 27 28 29 30 31	501 537 383 419 468 535	444 321 334 383 417 468	474 374 362 404 442 505	338 388 401 349 306	325 338 349 303 297	330 372 381 324 301	349 354 358 382 374 395	320 329 338 345 355 364	328 339 347 359 363 374	714 620 623 632 610 257	611 585 591 309 181 220	668 604 610 571 410 235
MONTH	825	252	554	838	182	661	538	181	352	728	181	568

DARDENNE CREEK BASIN

# 384304090441801 BURGERMEISTER SPRING NEAR WELDON SPRING, MO--Continued

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SPECIFIC CONDUCTANCE, in  $\mu\text{S/cm}$  @  $25^{\circ}\text{C}\text{,}$  WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	236 236 255 264 278	220 232 233 247 260	228 233 240 255 268	420 396 256 261 278	362 118 237 245 261	392 287 245 253 268	369 313 318 373 405	297 283 286 318 339	347 293 300 335 367	366 390 375 393 350	322 348 365 339 333	335 366 369 370 339
6 7 8 9	300 314 325 331 348	275 289 295 307 316	287 296 307 315 331	278 273 288 292 266	255 256 273 258 256	263 265 281 278 260	437 463 440 293 287	380 410 131 276 278	403 437 353 280 281	396 396 274 265 277	346 168 250 246 20	375 299 261 255 235
11 12 13 14 15	391 429 423 456 447	344 374 388 399 399	368 397 402 418 409	280 294 341 342 332	266 280 292 305 272	274 286 301 320 320	297 335 357 358 369	284 297 335 354 355	288 316 346 356 359	234 251 209 244 254	216 201 190 209 235	224 224 198 223 244
16 17 18 19 20	456 445 461 465 332	403 416 426 137 244	420 429 437 382 258	341 300 308 293 297	279 279 271 270 282	298 288 294 281 288	384 411 434 446 401	369 384 409 136 247	374 399 421 397 269	280 273 269 309 343	251 244 237 261 267	262 260 250 276 297
21 22 23 24 25	254 280 315 323 348	245 254 280 304 314	248 269 297 310 323	312 332 356 372 372	283 312 332 354 183	291 326 347 363 317	272 270 279 308 306	251 260 270 275 299	259 265 275 292 303	330 345 384 410 438	295 322 340 363 373	311 336 359 387 397
26 27 28 29 30 31	361 355 363 	320 325 329 	342 338 350 	298 288 272 289 307 335	275 266 260 268 277 307	286 277 264 275 285 320	333 367 294 328 331	306 175 284 294 301	316 326 288 305 315	433 436 451 470 479 485	389 397 418 426 442 442	408 413 435 445 459 463
MONTH	465	137	327	420	118	293	463	131	329	485	20	325
11011111					110	255						
PIOIVIII						2,5						
PIOIVIII		JUNE			JULY	233	I	AUGUST		5	SEPTEMBE	R
1 2 3 4 5	511 507 496 505 508					583 596 606 620 630		AUGUST				R 648 670 691 706 719
1 2 3 4	511 507 496 505	JUNE 461 460 474 481	479 483 484 495	591 606 617 627	JULY 573 588 563 610	583 596 606 620	715 726 735 741	AUGUST 696 708 693 725	704 717 724 733	660 684 701 719	636 655 681 685	648 670 691 706
1 2 3 4 5 6 7 8	511 507 496 505 508 356 375 406 444	JUNE 461 460 474 481 342 329 338 374 398	479 483 484 495 442 339 358 389 424	591 606 617 627 637 650 663 669 682	JULY 573 588 563 610 622 635 649 586 667	583 596 606 620 630 644 656 664 674	715 726 735 741 748 752 755 761 762	AUGUST  696 708 693 725 727  653 736 744 745	704 717 724 733 738 739 746 753 754	660 684 701 719 728 739 753 755 763	636 655 681 685 692 717 724 728 742	648 670 691 706 719 729 738 747 754
1 2 3 4 5 6 7 8 9 10 11 12 13 14	511 507 496 505 508 356 375 406 444 483 504 486 285 292	JUNE  461 460 474 481 342 329 338 374 398 439 187 129 268 283	479 483 484 495 442 339 358 389 424 464 460 296 278 287	591 606 617 627 637 650 663 669 682 685 690 423 478 524	JULY  573 588 563 610 622 635 649 586 667 211 369 371 422 471	583 596 606 620 630 644 656 664 674 600 442 397 452 498	715 726 735 741 748 752 755 761 762 764 761 757 762 765	AUGUST  696 708 693 725 727 653 736 744 745 742 725 731 656 705	704 717 724 733 738 739 746 753 754 751 746 749 743	660 684 701 719 728 739 753 755 763 771 775 776 783 783	636 655 681 685 692 717 724 728 742 747 758 755 757 598	648 670 691 706 719 729 738 747 754 760 766 771 763
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	511 507 496 505 508 356 375 406 444 483 504 488 292 311 346 375 402 423	JUNE  461 460 474 481 342 329 338 374 398 439 187 129 268 283 291 311 346 374 401	479 483 484 495 442 339 358 389 424 464 460 296 278 287 302 332 362 390 410	591 606 617 627 637 650 663 669 682 685 690 423 478 524 566 595 620 638 658	JULY  573 588 563 610 622 635 649 586 667 211 369 371 422 471 519 564 592 617 635	583 596 606 620 630 644 656 664 674 600 442 397 452 498 544 580 607 627 645	715 726 735 741 748 752 755 761 762 764 761 757 762 765 763	AUGUST  696 708 693 725 727  653 736 744 745 742  725 731 656 705 694  569 549 484 365	704 717 724 733 738 739 746 753 754 751 746 749 743 749 747 615 563 593 384	660 684 701 719 728 739 753 755 763 771 775 776 783 786 788	636 655 681 685 692 717 724 742 747 758 755 757 598 759 770 238 359 170	648 670 691 706 719 729 738 747 754 760 766 766 771 763 777 781 687 427 427
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	511 507 496 505 508 356 375 404 483 504 486 285 292 311 346 375 402 423 423 433 506 484 493 502 522 529 542 555 577	JUNE  461 460 474 481 342  329 338 374 398 439  187 129 268 283 291  311 346 374 401 414  433 455 484 492 503  515 526 537 548 559	479 483 484 495 442 339 358 389 424 464 460 296 278 287 302 332 362 390 410 423 446 489 500 512 523 533 545 558 569	591 606 617 627 637 650 663 669 682 685 690 423 478 524 566 595 620 638 674 691 698 705 718 716	JULY  573 588 563 610 622  635 649 586 667 211  369 371 422 471 519  564 592 617 635 653  670 681 601 700 604  579 604 634 651 665	583 596 606 620 630 644 656 664 674 600 442 397 452 498 544 580 607 627 645 662 679 689 693 709 666 594 621 644 664 664 664 664 665	715 726 735 741 748 752 755 761 762 764 761 757 762 765 763 697 575 657 500 424 475 546 627 619 421	AUGUST  696 708 693 725 727  653 736 744 745 742  725 731 656 704 569 549 484 365 380  424 470 417 351 365 416 455 524 563 591	704 717 724 733 738 739 746 753 754 751 746 749 747 615 563 593 384 406 456 510 558 381 393 442 493 549 578 605	660 684 701 719 728 739 753 755 763 771 775 776 783 786 788 794 789 758 466 358 350 385 413 445 492 539 567 600 619 641	636 655 681 685 692 717 724 742 747 758 755 757 598 759 770 238 359 170 317 317 317 350 379 491 536 567 597 617	648 670 691 706 719 729 738 747 754 760 766 766 771 763 777 781 687 427 363 336 410 430 472 523 558 584 609 629
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	511 507 496 505 508 356 375 406 444 483 504 486 285 292 311 346 375 402 423 433 456 484 494 506 522 529 542 555 565	JUNE  461 460 474 481 342  329 338 374 398 439  187 129 268 283 291  311 346 374 401 414  433 455 484 492 503  515 526 537 548	479 483 484 495 442 339 358 389 424 464 460 296 278 287 302 332 362 390 410 423 466 466 489 500 512 523 533 545 558	591 606 617 627 637 650 663 669 682 685 690 423 478 524 566 595 620 638 658 674 691 698 705 718 716	JULY  573 588 563 610 622  635 649 586 667 211  369 371 422 471 519  564 592 617 635 653  670 681 700 604  579 604 651	583 596 606 620 630 644 656 664 674 600 442 397 452 498 544 580 607 627 645 662 679 689 693 709 666	715 726 735 741 748 752 755 761 762 764 761 757 762 765 763 697 575 657 500 424 475 546 627 619 421 463 526 592	AUGUST  696 708 693 725 727  653 736 744 745 742  725 731 656 705 694  569 444 365 380  424 470 351 365 416 455 524 416 455	704 717 724 733 738 739 746 753 754 751 746 749 743 747 615 563 593 384 406 456 510 558 381 393 442 493 549 578	660 684 701 719 728 739 753 755 763 771 775 776 783 786 788 794 789 758 466 358 350 385 413 445 492 539 567 600 619	636 655 681 685 692 717 724 742 747 758 755 757 598 759 770 238 359 170 317 317 317 329 408 439 491 536 567 597	648 670 691 706 719 738 747 754 760 766 763 777 781 687 427 363 336 333 401 430 472 523 558 580 690

#### 05587450 MISSISSIPPI RIVER AT GRAFTON, IL

LOCATION.--Lat  $38^{\circ}58^{\circ}05^{\circ}$ , long  $90^{\circ}25^{\circ}42^{\circ}$ , in NE  $\frac{1}{4}$  sec.15, T.6 N., R.12 W., Jersey County, Hydrologic Unit 07110009, on left bank 0.2 mi downstream from the mouth of Illinois River, 15.3 mi above Lock and Dam 26, 23.0 mi above mouth of Missouri River, and at mile 218.6 upstream of the mouth of Ohio River.

DRAINAGE AREA. -- 171,300 mi<sup>2</sup>, approximately.

#### PERIOD OF RECORD . --

DISCHARGE: Intermittently from 1880 to 1928, computed daily 1928 to 1932 by the National Weather Service and/or the U.S. Army Corps of Engineers. Discharge previously published as "Mississippi River at Alton, IL" (05587500) October 1927 to September 1986.

GAGE HEIGHT: August 1879 through September 1892, 1929 to September 1986, October 1986 to current year. Stages also available from reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 403.79 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder 15.3 mi downstream.

REMARKS.--Records poor. Natural flow of river affected by many navigation dams in upper Mississippi River Basin. Flood water from Missiouri River overtops or breaches the levees at extremely high stages. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD. -- Flood of June 1844 reached an elevation of 435.89 ft, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAY JUN JUL AUG SEP 7 54700 84700 64200 315000 87200 76300 e250000 95300 150000 310000 90300 e310000 e315000 e315000 90700 e290000 ---MEAN MAX MTN 2.07 0.48 0.52 0.57 0.39 0.56 0.74 1.57 0.83 0.70 0.51 IN. 1.11 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY) MEAN MAX (WY) MIN (WY) SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1987 - 2002 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN May 19 HIGHEST DAILY MEAN May 15 Aug Dec 14 1988 LOWEST DAILY MEAN Dec 29 Dec 29 ANNUAL SEVEN-DAY MINIMUM Dec 27 Dec 12 1988 Jan 6 MAXIMUM PEAK FLOW May 15 Aug MAXIMUM PEAK STAGE \_\_\_ 431.45 May 15 441.96 Aug 1 1993 INSTANTANEOUS LOW FLOW Dec 29 Dec 14 1988 ANNUAL RUNOFF (INCHES) 11.38 10.06

10 PERCENT EXCEEDS 50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

e Estimated

# 05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL (National Stream-Quality Accounting Network) (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°57'04", long 90°22'16", in sec.24, T.6 N., R.11 W., Jersey County, Hydrologic Unit 07110009, 11.3 mi above Lock and Dam 26, 19.0 mi above mouth of Missouri River, and at mile 214.6 upstream from the mouth of the Ohio River.

DRAINAGE AREA.--171,300  $\min^2$ , approximately.

PERIOD OF RECORD.--March 1989 to current year. National Stream-Quality Accounting Network station September 1989 to October 1992. Ambient Water-Quality Monitoring Network and National Stream-Quality Accounting Network station November 1992 to current year.

REMARKS. -- Sediment records fair.

PERIOD OF DAILY RECORD. --

SUSPENDED-SEDIMENT: October 1989 to current year.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 1,910 mg/L, May 23, 1990; minimum daily mean, 1 mg/L, Sept. 10, 1991. SUSPENDED-SEDIMENT LOAD: Maximum daily, 1,090,000 tons, May 23, 1990; minimum daily, 186 tons, Sept. 10, 1991.

EXTREMES FOR CURRENT YEAR.-SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 737 mg/L, May 7; minimum daily mean, 40 mg/L, Sept. 30.
SUSPENDED-SEDIMENT LOAD: Maximum daily, 599,000 tons, May 8; minimum daily, 5,050 tons, Jan. 22.

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	TURBID- ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB- ANCE 254 NM, WTR FLT (units /cm) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (units /cm) (61726)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)
OCT												
15 NOV	1420	ENVIRONMENTAL	61300	1.1	.146	.107	10.7	109	8.2	471	15.9	200
19 DEC	1325	ENVIRONMENTAL	68800	20	.132	.094	12.8	120	8.7	535	12.2	250
03	1325	ENVIRONMENTAL	93400	31	.134	.100	11.1	96	8.3	512	8.4	230
03	1333	BLANK			<.004	<.004						
JAN												
16	1310	ENVIRONMENTAL	63200	14	<.004	.101	18.5	133	8.3	386	1.3	230
FEB												
11	1415	ENVIRONMENTAL	88300	110	.126	.093	15.9	122	8.4	512	3.2	240
MAR	1245		100000	70	116	002	10 5	1.00	0 5	F 4.6	4.0	050
12 APR	1345	ENVIRONMENTAL	126000	70	.116	.083	13.7	109	8.5	546	4.9	250
01	1405	ENVIRONMENTAL	94200	76	.117	.087	14.4	123	8.7	549	7.7	230
MAY	1403	BIVITONIBILIAL	74200	70	/	.007	11.1	123	0.7	345	/./	250
06	1405	ENVIRONMENTAL	271000	84	.171	.128	9.0	92	8.1	377	15.5	160
06	1440	BLANK						==				
JUN												
03	1355	ENVIRONMENTAL	231000	55	.178	.131	8.1	99	8.0	454	24.0	190
JUL												
08	1410	ENVIRONMENTAL	146000	36	.183	.132	5.9	80	8.1	434	31.0	180
AUG	1.405		05000	1.0	010	1.55	0 6	100	0 5	254	00 5	1.00
12 SEP	1425	ENVIRONMENTAL	86000	18	.218	.157	9.6	126	8.7	374	28.7	170
09	1415	ENVIRONMENTAL	74100	18	.205	.148	9.1	117	8.2	392	27.7	170
09	1413	EN A TUONMEN I AP	/-±100	Τ0	. 205	.140	۷.⊥	TT /	0.2	394	41.1	1/0

# MISSISSIPPI RIVER MAIN STEM

# 05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued (National Stream-Quality Accounting Network) (Ambient Water-Quality Monitoring Network)

DATE	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ALKA- LINITY WAT DIS FIX END FIELD (mg/L as CaCO <sub>3</sub> ) (39036)	ALKA- LINITY WAT DIS TOT IT FIELD (mg/L as CaCO <sub>3</sub> ) (39086)	BICAR- BONATE WATER DIS IT FIELD (mg/L as HCO <sub>3</sub> ) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO <sub>3</sub> ) (00452)	CHLO- RIDE, DIS- SOLVED (mg/L as CL) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO <sub>2</sub> ) (00955)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)
OCT 15	45.8	20.5	3.95	20.5	148	150	183	0	34.2	.2	6.3	35.2	
19	56.4	25.4	3.21	16.9	181	182	200	11	35.2	.2	4.1	38.6	
DEC 03 03	53.6	24.3	3.12	17.9	176 	178 	217	4	29.5	.2	4.4	38.1	62 
JAN 16	54.8	23.2	2.61	18.5	175	175	203	5	29.7	.2	7.5	35.6	
FEB 11	56.9	23.5	3.04	19.6	168	168	194	6	35.6	.2	6.4	41.1	
MAR 12	58.9	24.1	2.69	19.6	190	184	218	7	38.2	.2	5.0	41.0	480
APR 01	51.9	23.8	2.49	23.3	164	160	178	9	40.6	.2	3.0	42.3	
MAY 06 06	39.6 .02	15.8 <.008	2.86 E.08	11.4	128	126 	154 	0	19.0 <.30	E.1 <.1	7.0 <.2	29.0 <.1	
JUN 03	46.0	17.7	2.90	11.7	131	132	161	0	24.6	.2	4.7	34.8	
JUL 08	43.7	18.0	2.79	11.1	140	140	170	0	19.1	.2	8.0	31.0	43
AUG 12	38.8	17.7	2.84	12.1	137	136	151	7	20.0	.2	4.2	25.4	
SEP 09	41.6	17.2	3.25	12.5	128	128	156	0	18.6	.2	7.7	23.1	
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	NITRO- GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)
OCT 15	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)	GEN, NITRITE DIS- SOLVED (mg/L as N)	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N)	PHORUS DIS- SOLVED (mg/L as P)	PHORUS ORTHO, DIS- SOLVED (mg/L as P)	PHORUS TOTAL (mg/L as P)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C)	INOR- GANIC, PARTIC. TOTAL (mg/L as C)	ORGANIC DIS- SOLVED (mg/L as C)
OCT 15 NOV 19	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	ORGANIC DIS- SOLVED (mg/L as C) (00681)
OCT 15 NOV	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	ORGANIC DIS- SOLVED (mg/L as C) (00681)
OCT 15 NOV 19 DEC 03 03 JAN 16	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 284 316 372	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .47 .41	GEN,AM- MONIA + ORGANIC TOTTAL (mg/L as N) (00625)  .82 1.1 .95	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.35 1.92 1.86	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .017 .008	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHORUS DIS- SOLVED (mg/L as P) (00666) .144 .055	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .042	PHORUS TOTAL (mg/L as P) (00665)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.2 4.1 3.5	INOR-GANIC, PARTIC TOTAL (mg/L as C) (00688)  <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681) 5.4 5.2
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 284 316 372	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623) .47 .41	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .82 1.1	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) 1.35 1.92 1.86	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .017 .008 .012	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570) .52 .68 .34 <.02	PHORUS DIS- SOLVED (mg/L as P) (00666) .144 .055	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .042	PHORUS TOTAL (mg/L as P) (00665) .21 .161 .20	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.2 4.1 3.5 <.1	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688) <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681) 5.4 5.2 5.0
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 284 316 372  314	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 E.02	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .47 .41 .4538	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 1.1 .9595	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.35 1.92 1.86 2.82	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .017 .008 .012014	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570) .52 .68 .34 <.02	PHORUS DIS- SOLVED (mg/L as P) (00666) .144 .055 .096 	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .042 .079 	PHORUS TOTAL (mg/L as P) (00665)  .21 .161 .20141	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.2 4.1 3.5 <.1 2.6	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688) <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681) 5.4 5.2 5.0 .9
OCT 15 NOV 19 DEC 03 JAN 16 FEB 11 MAR 12 APR 01	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 284 316 372  314 316	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 E.02 E.03	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .47 .41 .4538 .40	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 1.1 .9595	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.35 1.92 1.86 2.82 4.51	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .017 .008 .012014 .025	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570) .52 .68 .34 <.02 .30 .76	PHORUS DIS- SOLVED (mg/L as P) (00666) .144 .055 .096  .065	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .042 .079  .051	PHORUS TOTAL (mg/L as P) (00665)  .21 .161 .20141 .41	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.2 4.1 3.5 <.1 2.6 6.6	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688) <.1 <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681) 5.4 5.2 5.0 .9 5.4
OCT 15 NOV 19 DEC 03 JAN 16 FEB 11 MAR 12 APR 01 MAY	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 284 316 372  314 316 332 326 227	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 E.02 E.03 <.04 <.04 <.04 <.04	GEN,AM-MONTA + ORGANIC DIS. (mg/L as N) (00623)  .47 .41 .4538 .40 .36 .40	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 1.1 .9595 1.8 1.3 1.4	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.35 1.92 1.86 2.82 4.51 3.96 3.32 2.67	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .017 .008 .012014 .025 .016 .018	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570) .52 .68 .34 <.02 .30 .76 .67 .98	PHORUS DIS- SOLVED (mg/L as P) (00666)  .144 .055 .096065 .107 .049 .026	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .042 .079  .051 .089 .030 .014	PHORUS TOTAL (mg/L as P) (00665)  .21 .161 .20141 .26 .26	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.2 4.1 3.5 <.1 2.6 6.6 4.8 6.7 5.4	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681)  5.4 5.2 5.0 .9 5.4 4.8 4.7
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06 JUN	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 284 316 372  314 316 332 326 227 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 E.02 E.03 <.04 <.04 4.04	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .47 .41 .4538 .40 .36 .40	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82  1.1 .9595  1.8  1.3  1.4	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.35 1.92 1.86 2.82 4.51 3.96 3.32 2.67	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .017 .008 .012014 .025 .016 .018 .022	GEN, PAR TICULITE WAT FLT SUSP (mg/L as N) (49570)  .52 .68 .34 <.02 .30 .76 .67 .98 .51	PHORUS DIS- SOLVED (mg/L as P) (00666) .144 .055 .096  .065 .107 .049 .026	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  .125 .042 .079051 .089 .030 .014 .053	PHORUS TOTAL (mg/L as P) (00665)  .21 .161 .20141 .41 .26 .26	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.2 4.1 3.5 <.1 2.6 6.6 4.8 6.7 5.4	INOR- GANIC, PARTIC TOTAL (mg/L as C) (00688) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681)  5.4 5.2 5.0 .9 5.4 4.8 4.7 4.8 5.8
OCT 15 NOV 19 DEC 03 UAN 16 FEB 11 MAR 12 APR 01 MAY 06 UIUN 03 JUL	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 284 316 372  314 316 332 432 227 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 E.02 E.03 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .47 .41 .4538 .40 .36 .40 .4654	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 1.1 .9595 1.8 1.3 1.4 1.2 1.1	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  1.35 1.92 1.86 2.82 4.51 3.96 3.32 2.67 3.93	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .017 .008 .012014 .025 .016 .018 .022040	GEN, PAR TICULTE SUSP (mg/L as N) (49570)  .52 .68 .34 <.02 .30 .76 .67 .98 .51	PHORUS DIS- SOLVED (mg/L as P) (00666) .144 .055 .096  .065 .107 .049 .026	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .042 .079  .051 .089 .030 .014 .053 	PHORUS TOTAL (mg/L as P) (00665)  .21 .161 .20141 .41 .26 .26 .2824	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.2 4.1 3.5 <.1 2.6 6.6 4.8 6.7 5.4 3.3	INOR- GANIC, PARTIC TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681) 5.4 5.2 5.0 .9 5.4 4.8 4.7 4.8 5.8 
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 01 APR 01 APR 01 MAY 06 06 JUN 03 JUL 08 AUG	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 284 316 372  314 316 332 326 227 <10 270	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 E.02 E.03 <.04 <.04 <.04 <.04 <.04 <.04	GEN,AM-MONTA + MONTA + ORGANIC DIS. (mg/L as N) (00623)  .47 .41 .4538 .40 .36 .40 .4654	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 1.1 .9595 1.8 1.3 1.4 1.2 1.1 .88	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.35 1.92 1.86 2.82 4.51 3.96 3.32 2.67 3.93 3.08	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .017 .008 .012014 .025 .016 .018 .022040 .029	GEN, PAR TICULTE WAT FIT SUSP (mg/L as N) (49570)  .52 .68 .34 <.02 .30 .76 .67 .98 .5137	PHORUS DIS- SOLVED (mg/L as P) (00666)  .144 .055 .096065 .107 .049 .026 .069089	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  .125 .042 .079051 .089 .030 .014 .053066 .114	PHORUS TOTAL (mg/L as P) (00665)  .21 .161 .20141 .41 .26 .26 .2824 .20	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.2 4.1 3.5 <.1 2.6 6.6 4.8 6.7 5.4 3.3 2.7	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681)  5.4 5.2 5.0 .9 5.4 4.8 4.7 4.8 5.8 5.5 5.8
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06 JUN 03 JUN 03 JUL 08	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 284 316 372  314 316 332 432 227 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 E.02 E.03 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .47 .41 .4538 .40 .36 .40 .4654	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 1.1 .9595 1.8 1.3 1.4 1.2 1.1	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  1.35 1.92 1.86 2.82 4.51 3.96 3.32 2.67 3.93	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .017 .008 .012014 .025 .016 .018 .022040	GEN, PAR TICULTE SUSP (mg/L as N) (49570)  .52 .68 .34 <.02 .30 .76 .67 .98 .51	PHORUS DIS- SOLVED (mg/L as P) (00666) .144 .055 .096  .065 .107 .049 .026	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .042 .079  .051 .089 .030 .014 .053 	PHORUS TOTAL (mg/L as P) (00665)  .21 .161 .20141 .41 .26 .26 .2824	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.2 4.1 3.5 <.1 2.6 6.6 4.8 6.7 5.4 3.3	INOR- GANIC, PARTIC TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681) 5.4 5.2 5.0 .9 5.4 4.8 4.7 4.8 5.8 

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05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued (National Stream-Quality Accounting Network) (Ambient Water-Quality Monitoring Network)

DATE	CARBON, ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)	PHEO- PHYTIN A, PHYTO- PHYTON (µg/L) (62360)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µM-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µg/L) (70953)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)
OCT 15	3.2	39.2	K87	145	75	31.7							
NOV 19	4.1	46.2	к7	к8	К2	49.9							
03 03	3.4	33.4	K92	K98 	165 	30.0	M 	670 	<8	<.1	<6 	<10	.09
JAN 16	2.5	10.8	K1	К5	К4	63.0							
FEB 11	6.6	24.1	<4	к8	K67	54.5							
MAR 12	4.5	28.4	К35	23	46	65.3	<20	1060	<8	<.1	<6	E7	<.08
APR 01 MAY	6.7	41.4	K11	LA	26	89.4							
06 06	5.3	19.3	K30 	K36 	K40 	27.4	<20 <20	1300 E20	<8 <8	.2 <.1	<6 <6	15 <10	.11
JUN 03	3.3	25.1	K8	K25	K5	31.9							
JUL 08 AUG	2.5	18.4	К4	к6	35	20.9	<20	760	<8	<.1	<6	<10	E.06
12 SEP	3.1	23.1	К3	к8	K4	68.5							
09	2.5	24.5	K1	K8	K40	49.0							
DATE	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)
OCT	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L)	ZINE, WATER, DISS, REC (µg/L)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L)	ATE, WATER, DISS, REC (µg/L)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L)
OCT 15 NOV	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	ATE, WATER, DISS, REC (µg/L) (04028)	BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)
OCT 15	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	ATE, WATER, DISS, REC (µg/L) (04028)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)
OCT 15 NOV 19 DEC 03 03	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  < <20	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660) <.002 <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 .061	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.002	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .077	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010	ATE, WATER, DISS, REC (µg/L) (04028)  <.002 <.002	BARYL WATER FITRD 0.7 µ GF, REC (µg/L) (82680)  <.041 <.041
OCT 15 NOV 19 DEC 03 03 JAN 16	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mm) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	DIS- SOLVED (µg/L as Zn) (01090)   <24 	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  <20	ETHYL ANTLINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.002 <.006	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 .061 	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.002 <.010	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .077 .134 	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010  <.010	ATE, WATER, DISS, REC (µg/L) (04028)  <.002 <.002  <.002	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680) <.041 <.041
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11	TOTAL RECOV- ERABLE (µg/L as Pb) (01051) 2	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (μg/L as Zn) (01092) <20	ETHYL ANTLINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 .061085	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.002 <.010 <.004	BHC DIS- DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .077 .134  .118	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (µg/L) (04028)  <.002 <.002 <.002 <.002 <.002	BARYL WATER FITRD 0.7 µ GF, REC (µg/L) (82680) <.041 <.041 <.041 <.041
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  2 3	NESE, DIS- SOLVED (μg/L as Mn) (01056)   18.0   5.4	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 E.01	DIS- SOLVED (µg/L as Zn) (01090)   <24   <24	TOTAL RECOV- REABLE (µg/L as Zn) (01092)  <20 <20 <20	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002 <.006 <.006	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 .061 .085 .036	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.002 <.010 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .077 .134  .118 .199	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010  <.010 <.010	ATE, WATER, DISS, REC (µg/L) (04028)  <.002 <.002  <.002 <.002 <.002	BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)  <.041 <.041  <.041 <.041 <.041
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12 APR 01	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  2 3 3	NESE, DIS- SOLVED (μg/L as Mn) (01056)   18.0   5.4	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 E.01	DIS- SOLVED (µg/L as Zn) (01090)   <24   <24	TOTAL RECOV- REABLE (μg/L as Zn) (01092)  < < < < < < < < <-	ETHYL ANTLINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002 <.006 <.006 <.006	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 .061085 .036 .028	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.002 <.010 <.004 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .077 .134  .118 .199 .136	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (µg/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  2 3	NESE, DIS- SOLVED (μg/L as Mn) (01056)   18.0   5.4	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 E.01	DIS- SOLVED (µg/L as Zn) (01090)   <24   <24	TOTAL RECOV- REABLE (µg/L as Zn) (01092)  <20 <20 <20	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002 <.006 <.006	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 .061 .085 .036	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.002 <.010 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .077 .134  .118 .199	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010  <.010 <.010	ATE, WATER, DISS, REC (µg/L) (04028)  <.002 <.002  <.002 <.002 <.002	BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)  <.041 <.041  <.041 <.041 <.041
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06 06 JUN 03	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  2 3 4	NESE, DIS- SOLVED (μg/L as Mn) (01056)   18.0   5.4  E2.7	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 E.0101	DIS- SOLVED (µg/L as Zn) (01090)   <24   <24  <24	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  < < < < < < < < <-	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002 <.006 <.006 <.006	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 .061 .085 .036 .028 .011 .503	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.002 <.010 <.004 <.004	BHC DIS- SOLVED (μg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .077 .134  .118 .199 .136 .116	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (µg/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FITRD 0.7 µ GF, REC (µg/L) (82680) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06 JUN	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)  2 3 4 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  18.0 5.4 5.4 E2.7 <2.0	TOTAL RECOV-ERABLE (μg/L as Hg) (71900)  <.01 E.01   E.0101 <.01	DIS- SOLVED (µg/L as Zn) (01090)  <24  <24  <24  <24	TOTAL RECOV- REABLE (μg/L as Zn) (01092)  <20 <20 <20 <20 <20 <20	ETHYL ANTLINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002 <.006 <.006 <.006 <.006	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 .061085 .036 .028 .011 .503	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.002 <.010 <.004 <.004004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .077 .134  .118 .199 .136 .116	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (µg/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FITRD 0.7 µ GF, REC (µg/L) (82680)  <.041 <.041 <.041 <.041 <.041 <.041 <.041
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06 06 JUN 03	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn) (01056)  18.0 5.4 5.4 E2.7 <2.0	TOTAL RECOV-ERABLE (μg/L as Hg) (71900)  <.01 E.01   E.01   .01 <.01	DIS- SOLVED (µg/L as Zn) (01090)  <24 <24 <24 <24	TOTAL RECOV- REABLE (μg/L as Zn) (01092)  < < < < < < < < <-	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002 <.006 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 .061085 .036 .028 .011 .503610	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.002 <.010 <.004 <.004004004	BHC DIS- DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .077 .134  .118 .199 .136 .116 3.76  3.64	FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (µg/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FITRD 0.7 µ GF, REC (µg/L) (82680)  <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041

# MISSISSIPPI RIVER MAIN STEM

# 05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued (National Stream-Quality Accounting Network) (Ambient Water-Quality Monitoring Network)

DATE	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)
OCT 15													
NOV 19	<.020	<.005	<.018	<.003	E.059	.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
DEC 03 03	<.020	<.005	<.018	<.003	E.025	E.003	<.005	<.02	<.002	<.009	<.005	<.003	<.004
JAN 16	<.020	<.005	<.018	<.003	E.035	E.003	<.005	<.02	<.002	<.009	<.005	<.003	<.004
FEB 11	<.020	<.005	<.018	<.003	E.064	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
MAR 12	<.020	<.005	<.018	<.003	E.028	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
APR 01	<.020	<.005	<.018	<.003	E.034	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
MAY 06 06	<.020	<.005	<.018	<.003	E.192	.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
JUN 03	<.020	<.005	<.018	<.003	E.205	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
JUL 08	<.020	<.005	<.018	<.003	E.144	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
AUG 12	<.020	<.005	<.018	<.003	E.105	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
SEP 09	<.020	<.005	<.018	<.003	E.068	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
DATE	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)
OCT 15	URON WATER FLTRD 0.7 μ GF, REC (μg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L)	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L)	METH- ALIN WAT FLT 0.7 μ GF, REC (μg/L)	METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L)
OCT 15 NOV 19	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	METH- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82683)	METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)
OCT 15 NOV 19 DEC 03	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	METH- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82683)	METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L) (82687)
OCT 15 NOV 19 DEC 03 03 JAN 16	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 023 .033	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER FLTR 0.7 µ GF, REC (µg/L) (82671) <.002 <.002	AMIDE WATER FLIRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669) <.002	METH- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82683)  <.010	METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L) (82687)  <.006
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006 	LACHLOR WATER DISSOLV (µg/L) (39415) 023 .033	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006	INATE WATER WATER FLIRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)  <.002 <.002	METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)  <.010 <.010	METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L) (82687)  <.006 <.006
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050  <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 023 .033030	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006  <.006	INATE WATER WATER 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 µ GF, REC (µg/L) (82684) <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007 <.010	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)  <.002 <.002 <.004	METH- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82683)  <.010 <.010  <.022	METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)  <.006  <.006
OCT 15 NOV 19 DEC 03 JAN 16 FEB 11 MAR 12 APR 01	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050 <.050  <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006  <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 023 .033030 .103	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006  <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)  <.002 <.002 <.004 <.004	METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)  <.010 <.010  <.022 <.022	METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L) (82687)  <.006  <.006 <.006
OCT 15 NOV 19 DEC 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050  <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006  <.006 <.060 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 023 .033030 .103	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006  <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007 <.010 <.010	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)  <.002 <.002 <.004 <.004	METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)  <.010  <.022 <.022 <.022	METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L) (82687)  <.006  <.006 <.006 <.006
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06 06 JUN 03	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (μg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050  <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006 <.006  <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 023 .033030 .103 .044 .033 .679	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006 <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669) <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)  <.010 <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022	METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L) (82687)  <.006 <.006 <.006 <.006 <.006 <.006 <.006
OCT 15 NOV 19 DEC 03 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06 06 JUN 03 JUN 03 JUL 08	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006 <.006 <.006 <.060 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 023 .033030 .103 .044 .033 .679	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006 <.006 <.006 <.006 .006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010	ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)  <.002 <.002 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82683)  <.010 <.010  <.022 <.022 <.022 <.022	METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L) (82687)  <.006 <.006 <.006 <.006 <.006 <.006
OCT 15 NOV 19 DEC 03 JAN 16 FEB 11 MAR 12 APR 01 MAY 06 06 JUN 03	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006  <.006 <.060 <.006 006	LACHLOR WATER DISSOLV (µg/L) (39415) 023 .033030 .103 .044 .033 .679700	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006 <.006 <.006 <.006 <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010	ULATE WATER FILITRD 0.7 µ GF, REC (µg/L) (82669)  <.002 <.002 <.004 <.004 <.004 <.004 <.004	METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)  <.010 <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022	METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006

# 05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued (National Stream-Quality Accounting Network) (Ambient Water-Quality Monitoring Network)

DATE	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
OCT													
15 NOV													
19	<.011	<.01	<.004	<.010	<.011	<.02	.040	<.02	<.034	<.02	<.005	<.002	<.009
DEC													
03 03	<.011	E.01	<.004	<.010	<.011	<.02	.133	<.02	<.034	<.02	<.005	<.002	<.009
JAN													
16	<.011	<.01	<.004	<.010	<.011	<.02	.010	<.02	<.034	<.02	<.005	.004	<.009
FEB													
11 MAR	<.011	M	<.004	<.010	<.011	<.02	.029	<.02	<.034	<.02	<.005	.003	<.009
12	<.011	М	<.004	<.010	<.011	<.02	.025	<.02	<.034	<.02	<.005	<.002	<.009
APR													
01	<.011	M	<.004	<.010	<.011	<.02	.018	<.02	<.034	<.02	<.005	<.002	<.009
MAY 06	<.011	E.01	<.004	<.010	<.011	<.02	.153	<.02	<.034	<.02	<.005	<.002	<.009
06													
JUN	011	- 01	004	010	011	0.0	100	0.0	004	0.0	0.05	000	000
03 JUL	<.011	E.01	<.004	<.010	<.011	<.02	.126	<.02	<.034	<.02	<.005	<.002	<.009
08	<.011	E.01	<.004	<.010	<.011	<.02	.019	<.02	<.034	<.02	<.005	<.002	<.009
AUG													
12 SEP	<.011	E.01	<.004	<.010	<.011	<.02	.016	<.02	<.034	<.02	<.005	<.002	<.009
09	<.011	E.01	<.004	<.010	<.011	<.02	.013	<.02	<.034	<.02	<.005	<.002	<.009

DATE	% FINER	PENDEI (mg/L)
OCT	0.5	120
15 NOV	85	132
19 DEC	98	50
03	96	65
03		
JAN 16	73	96
FEB 11	98	95
MAR	96	93
12	97	296
APR 01	99	85
MAY		
06 06	90	216
JUN		
03	80	170
JUL 08	85	92
AUG	03	22
12	94	34
SEP 09	94	33

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA--Laboratory accident.

# MISSISSIPPI RIVER MAIN STEM

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued (National Stream-Quality Accounting Network) (Ambient Water-Quality Monitoring Network)

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		OCTOBER		:	NOVEMBER		Di	ECEMBER	
1	56100	96	14400	85900	139	32300	89800	114	27700
2	52700	77	10900	85500	101	23400	90600	99	24200
3	46100	74	9190	89200	101	24300	93400	89	22500
4	44500	71	8540	87600	106	25100	97100	86	22500
5	47900	70	8990	91900	142	35100	95500	86	22300
6	45200	73	8930	91500	113	27900	89600	82	19700
7	51400	68	9460	86900	99	23300	87400	87	20500
8	54700	69	10200	79400	103	22000	84700	79	18000
9	56600	61	9280	84100	86	19500	86000	75	17500
10	51000	59	8180	82100	78	17200	92300	89	22300
11	47200	66	8420	83200	74	16700	98300	99	26400
12	47600	78	9980	82600	81	18000	103000	96	26500
13	56000	93	14000	79400	82	17700	97400	77	20300
14	55900	96	14500	77200	75	15500	99600	91	24400
15	61300	95	15700	76500	64	13300	102000	115	31700
16	61500	101	16800	75900	59	12200	103000	127	35200
17	88300	135	32100	73000	52	10300	111000	144	43200
18	88800	148	35500	74300	66	13200	106000	130	37200
19	85000	154	35500	68800	86	15900	92900	133	33500
20	87900	145	34400	72700	78	15300	92400	127	31700
21	83000	111	25000	74800	70	14100	92600	98	24600
22	80800	100	21900	71800	63	12100	95100	121	31000
23	95000	123	32100	74100	71	14200	90600	133	32700
24	103000	191	53400	80900	85	18600	75100	86	17500
25	108000	224	65200	77700	76	15900	58900	81	12900
26 27 28 29 30 31	96100 92400 102000 93400 92900 94300	206 181 154 144 177 170	53600 45200 42500 36300 44300 43200	79200 74100 79600 85100 91000	72 69 73 79 87	15400 13900 15700 18100 21400	61300 47900 38200 34500 44900 61700	81 86 66 56 73 65	13400 11200 6780 5210 9240 10900
		JANUARY			FEBRUARY			MARCH	
1	54300	58	8570	122000	417	138000	106000	129	37000
2	51300	54	7510	110000	278	82700	101000	132	36000
3	55500	50	7510	95900	222	57300	96200	132	34300
4	61800	47	7780	84200	261	59200	94900	132	33900
5	60500	46	7470	85100	258	59400	86700	128	30000
6	52700	47	6710	83600	157	35400	83900	113	25600
7	49100	57	7630	83700	132	29700	91000	111	27300
8	64200	86	15100	86400	146	34200	94000	139	35300
9	66100	93	16600	89800	175	42400	85100	176	40500
10	59900	70	11300	85900	166	38600	111000	181	54500
11	55700	59	8800	88300	163	38900	130000	196	68900
12	59100	50	8010	91600	111	27500	126000	209	70800
13	66900	64	11500	95300	99	25600	121000	292	95400
14	60400	72	11700	98600	135	36000	119000	267	86000
15	55100	73	10900	92600	110	27500	119000	263	84700
16	63200	73	12500	86400	109	25700	126000	223	76200
17	60400	60	9770	86200	93	21600	125000	198	67200
18	58000	59	9230	90700	124	30300	123000	144	47900
19	61400	65	10800	87300	132	31200	127000	150	51300
20	57800	45	6970	80000	102	22000	122000	184	60600
21	50500	46	6310	82500	83	18500	117000	213	67300
22	39500	47	5050	93500	122	30900	111000	191	57000
23	48000	48	6230	99800	179	48200	105000	143	40700
24	47300	49	6260	102000	189	52300	109000	114	33600
25	45400	54	6620	101000	167	45700	115000	140	43600
26 27 28 29 30 31	51200 52000 53600 59300 64600 104000	51 51 47 46 72 264	6990 7210 6750 7380 12600 80600	92400 95300 103000  	137 136 114 	34100 34800 31700 	113000 111000 109000 109000 105000 99400	152 136 144 177 155 148	46400 40900 42500 52300 43900 39800

MISSISSIPPI RIVER MAIN STEM 89

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued (National Stream-Quality Accounting Network) (Ambient Water-Quality Monitoring Network)

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			- ,	, , ,	•				
DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		APRIL			MAY			JUNE	
1	94200	162	41200	293000	311	247000	231000	199	124000
2	94600	168	42800	294000	319	254000	228000	179	110000
3	101000	169	45800	290000	280	219000	231000	185	115000
4	104000	147	41400	282000	231	176000	226000	165	101000
5	105000	159	44800	272000	222	163000	214000	175	101000
6	105000	189	53800	271000	292	214000	220000	196	116000
7	110000	189	56300	292000	737	584000	231000	176	110000
8	112000	164	49400	315000	706	599000	240000	185	119000
9	127000	184	64000	306000	316	261000	244000	225	150000
10	162000	282	124000	291000	286	225000	250000	287	194000
11	180000	358	173000	273000	290	213000	261000	445	315000
12	167000	311	140000	273000	379	280000	279000	524	397000
13	150000	295	119000	310000	324	271000	290000	323	253000
14	151000	294	120000	350000	270	255000	310000	260	218000
15	146000	267	105000	374000	183	185000	315000	185	157000
16	146000	303	120000	372000	185	186000	315000	331	277000
17	153000	291	120000	365000	179	176000	307000	226	187000
18	155000	250	105000	358000	181	174000	290000	179	140000
19	162000	245	107000	349000	227	213000	272000	201	148000
20	173000	245	114000	345000	295	274000	253000	209	143000
21	191000	266	138000	338000	274	250000	237000	201	128000
22	218000	416	245000	328000	269	238000	225000	172	104000
23	224000	321	194000	316000	307	262000	216000	191	111000
24	224000	380	230000	302000	299	244000	208000	178	99800
25	232000	582	365000	292000	243	191000	204000	151	83400
26 27 28 29 30 31	241000 245000 267000 283000 290000	534 374 482 413 369	348000 247000 348000 315000 290000	288000 289000 290000 285000 270000 249000	223 230 236 214 238 268	173000 179000 185000 164000 173000 181000	200000 189000 176000 175000 182000	135 148 170 190 208	72900 75600 80300 89800 102000
		JULY			AUGUST		S	EPTEMBER	
1	183000	209	103000	94700	110	28300	119000	177	56600
2	182000	191	93800	88600	116	27700	114000	165	50900
3	182000	175	86200	84900	106	24300	109000	140	41200
4	177000	164	78200	84900	107	24600	103000	95	26600
5	172000	133	62100	81000	101	22000	96000	94	24400
6	165000	118	52500	84600	105	24100	85200	94	21600
7	157000	119	50200	86700	110	25900	77800	97	20400
8	146000	112	44000	87200	110	26000	76300	91	18800
9	142000	132	50500	82400	94	20800	74100	79	15900
10	137000	117	43400	85200	89	20500	69300	76	14200
11	137000	120	44300	85200	86	19800	76800	86	17800
12	131000	114	40300	86000	80	18700	77700	86	18000
13	128000	116	40200	90300	82	20000	78200	83	17500
14	121000	102	33400	93200	95	23900	78500	85	18000
15	113000	98	29900	94100	114	29100	78000	79	16600
16	100000	96	26000	92200	112	28000	78800	82	17500
17	96800	89	23200	96400	132	34400	83000	76	17100
18	92500	84	21000	91700	143	35500	79700	71	15300
19	92200	77	19100	96400	140	36300	83100	76	17000
20	96400	86	22500	101000	114	31000	78000	85	17800
21	104000	95	26600	96700	109	28400	72100	87	16800
22	101000	105	28600	96500	112	29300	63500	110	18800
23	103000	92	25500	104000	126	35400	71500	85	16400
24	104000	95	26800	146000	259	103000	68900	62	11600
25	101000	91	24700	168000	329	150000	66500	77	13900
26 27 28 29 30 31	96300 95600 95800 92600 97500 96300	89 70 67 64 96 98	23200 18000 17200 16200 25300 25400	164000 159000 146000 130000 125000 123000	303 260 244 237 237 197	135000 111000 96300 83500 80100 65200	58800 51600 55000 60200 59200	72 53 54 52 40	11500 7440 8030 8390 6350

90 MISSOURI RIVER MAIN STEM

## 06813500 MISSOURI RIVER AT RULO, NE

LOCATION.--Lat  $40^{\circ}03^{\circ}13^{\circ}$ , long  $95^{\circ}25^{\circ}19^{\circ}$ , in  $NW^{\frac{1}{4}}$   $NW^{\frac{1}{4}}$  sec.17, T.1 N., R.18 E., Richardson County, Hydrologic Unit 10240005, on right bank at downstream side of bridge on U.S. Highway 159 at Rulo, 3.2 mi upstream from Big Nemaha River, and at mile 498.0.

DRAINAGE AREA.--414,900  $\mathrm{mi}^2$ , approximately. The 3,959  $\mathrm{mi}^2$  in Great Divide basin are not included.

PERIOD OF RECORD.--October 1949 to current year in reports of U.S. Geological Survey. Gage-height record collected at site 80 ft upstream January 1886 to December 1899 published in reports of Missouri River Commission; September 1929 to September 1950 in files of Kansas City office of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 837.23 ft above National Geodetic Vertical Datum of 1929. Oct. 1949 to Sept. 12, 1950, nonrecording gage at site 80 ft upstream and Sept. 13, 1950 to Apr. 19, 1983, recording gage on downstream end of middle pier, all at same datum.

REMARKS.--Records good. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge,  $358,000 \text{ ft}^3/\text{s}$  Apr. 22, 1952, gage height, 25.60 ft; minimum daily discharge,  $4,420 \text{ ft}^3/\text{s}$  Jan. 13, 1957; minimum gage height, -0.19 ft Dec. 25, 1990, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1881 reached a stage of 22.9 ft, from floodmark, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	35000 35100 35500 35600 35700	35700 36000 36200 36400 36500	34700 32300 30600 28800 27900	21300 21200 21200 21300 21500	22100 19800 19200 20000 20200	22900 22100 22200 21600 20000	35100 35500 36200 36800 36200	35000 34300 34100 34500 34200	37100 35400 34600 34400 34300	31500 31200 30900 30900 30800	28000 27800 27600 27600 28000	35100 34400 34300 34500 34200
6 7 8 9 10	35600 35300 35100 35000 35700	36500 36300 36400 36400 36300	27900 27900 28100 27700 27100	21900 22500 24200 24800 23500	20200 20900 21700 23300 24600	20900 22600 23600 24000 23400	35600 34700 33500 34200 34300	36700 36200 34400 33900 33500	33800 33400 32900 32200 32600	30300 30100 30100 30000 30500	29200 31000 32700 30900 29900	34000 34000 34200 34100 34000
11 12 13 14 15	36800 36200 37400 38500 36900	36400 36400 36300 36200 36700	26700 26600 26200 25700 25800	23600 25100 25900 26400 26900	25300 25300 25800 25900 26500	23100 23400 23700 25300 30300	34500 35200 35600 34700 34500	34300 41400 44600 43000 39900	33100 35300 47300 49800 43300	30300 30900 32400 31500 29800	29900 29700 30400 32200 30300	33900 34200 34400 34700 34800
16 17 18 19 20	36100 35800 35500 35500 35600	36500 36600 36800 36800 36600	25800 25400 25000 25200 25000	26600 25800 24700 24500 24700	25800 26100 26700 26600 27000	33600 30500 28100 26900 26600	34400 34700 34700 34800 35100	38600 38100 37100 37100 35900	39000 37900 37100 36000 35300	29600 29100 28700 28400 28200	30200 30600 31800 35300 37600	35300 34900 34100 33900 34200
21 22 23 24 25	35400 35000 35700 35800 35500	36000 36000 36200 36700 38300	24800 24800 24100 24200 24300	24100 23100 23000 23100 22900	27000 26600 26000 25500 25300	26800 28100 30500 31800 33400	34700 34400 33800 34000 33800	35100 34500 34800 35600 36000	34600 34300 34500 34000 33300	27900 27600 27600 27900 28100	38300 36700 44400 51500 42900	34600 33900 33200 32600 32100
26 27 28 29 30	35500 35300 35300 35400 35100	39700 40400 38900 38000 36800	23300 21900 21700 21300 21200	23200 23700 24700 25000 24000	25400 25500 24700 	34200 33500 33900 34900 34600	33200 33200 34400 34400 34800	37700 37900	32500 32000 32100 32200 32000	28600 29300 30800 29400 28400	41100 38400 36600 35600 35300	32000 32600 33400 33400 33800
MEAN MAX MIN IN.	35100 35710 38500 35000 0.10	36830 40400 35700 0.10	21900 25930 34700 21200 0.07	22900 23780 26900 21200 0.07	24250 27000 19200 0.06	34600 27450 34900 20000 0.08	34700 36800 33200 0.09	37400 36600 44600 33500 0.10	35540 49800 32000	28300 29650 32400 27600 0.08	36100 33790 51500 27600 0.09	33960 35300 32000 0.09
STATIST	CICS OF M	ONTHLY MEA	AN DATA F	OR WATER Y	EARS 195	3 - 2002 <sup>a</sup>	, BY WATER	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	44780 80050 1998 25580 1962		27350 57380 1998 9953 1956	22870 42280 1973 10800 1957	28600 53140 1997 13220 1957	41190 79590 1979 15380 1957	1997 21820	97280	56710 130600 1984 33710 1956	50730 164800 1993 29650 2002	44890 78730 1996 29820 1955	45060 76410 1997 33960 2002
SUMMARY	STATIST	ICS	FO	R 2001 CAI	LENDAR YE	AR	FOR 2002	WATER YE	EAR	WATER YE	EARS 1953	3 - 2002 <sup>a</sup>
	' ANNUAL I			40580			31540			42250 71880 26340		1997 1957
HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC	DAILY ME DAILY ME SEVEN-DA PEAK FLO PEAK ST ANEOUS LO RUNOFF (C	EAN AN Y MINIMUM OW AGE OW FLOW INCHES) EDS EDS EDS		103000 20600 21700  1.33 65600	May Feb : Jan :	6 19 31	51500 19200 20300 59500 13.71 18900 1.03 36800 33500 23400	Aug Feb Feb Aug Feb	24 3 2 24 24 3	289000 4420 5560 307000 25.37  1.38 66900	Jul Jan Nov Jul Jul	24 1993 13 1957 30 1955 24 1993 24 1993
50 PERC 90 PERC	ENT EXCE:	EDS EDS		36300 22700			33500 23400			38700 19000		

a Post\_regulation period.

### MISSOURI RIVER BASIN 91

## 06815555 DAVIS CREEK AT MOUND CITY, MO

LOCATION.--Lat  $40^{\circ}07^{\circ}47^{\circ}$ , long  $95^{\circ}13^{\circ}50^{\circ}$ , in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.6, T.61 N., R.38 W., Holt County, Hydrologic Unit 10240005, on left bank at downstream side of Highway E bridge, in Mound City.

DRAINAGE AREA.--22.9 mi<sup>2</sup>.

PERIOD OF RECORD.--Jan. 20, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

		DISCHAF	RGE, CUBIC	FEET F	PER SECOND, DAILY		YEAR OCTOBER ALUES	2001 TO	) SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.9 7.0 6.6 7.4	5.9 5.2 5.1 5.8 6.1	5.8 5.9 5.5 6.6 7.8	e2.9 e2.7 e2.7 e2.9 e3.5	3.0		2.9 3.2 3.4	5.2 5.3 5.1 4.8 4.4	4.9 4.7 4.3 5.0 5.0	2.1 2.3 2.3	e1.4 e1.3 e1.3 e1.3 e1.3	0.98 0.79 0.86 0.82 0.80
6 7 8 9 10	7.4 6.5 6.0 5.8 6.8	6.2 5.6 5.7 5.7	8.7 8.3 7.3 8.8 6.9	e3.9 e3.5 e3.2 e4.5 5.1	3.3 3.6 4.1 5.2 5.1	e3.5 3.4 3.7 e3.2 e3.5	3.4 3.2 4.3 4.7 4.0	28 11 8.5 8.6 6.7	5.0 5.0 5.0 5.4 4.7	1.8 1.6 1.6 1.4	e1.1 0.79 0.63 0.64 0.62	0.69 0.60 0.71 0.60 0.57
11 12 13 14 15	6.1 6.1 12 7.6 14	5.7 5.6 5.7 5.8 5.8	6.3 7.1 6.7 6.2 5.9	e5.2 4.9 4.7 4.5 e5.0	6.1 4.4 4.1 3.8 3.6	3.8 3.7 3.2 3.1 3.0	4.5 11 4.9 4.4 4.1	16 19 10 9.0 8.0	5.7 7.5 6.3 5.9 5.2	1.4 7.5 2.8 2.0 1.9	0.63 0.60 15 2.7 1.9	0.64 0.66 0.63 0.70 0.64
16 17 18 19 20	10 7.8 7.4 6.4 5.9	5.5 5.5 5.7 6.2 6.4	5.6 5.2 5.1 5.3 5.2	e3.5 e3.4 e3.4 e3.5 e3.7		3.0 3.2 3.3 3.4 3.4		7.2 8.1 8.0 6.8 6.6	4.2 3.7 3.9 3.0 2.6	1.9 1.7 1.7 1.8 1.4	1.9 2.4 1.8 2.5	0.63 0.64 0.69 0.63 0.70
21 22 23 24 25	5.7 6.4 6.5 6.6 5.6	6.5 6.4 6.2 12 8.7	5.1 5.4 e4.5 e4.1 e3.9	e3.5 4.1 4.0 e3.4 e3.4	4.2 3.5 3.7 4.0 3.8		4.7 4.4 4.4 4.6 4.2		2.5 3.9 3.8 2.8 2.4	1.3 1.2 1.2 1.1	5.4 2.7 3.2 1.9	0.53 0.45 0.51 0.59 0.62
26 27 28 29 30 31	5.6 5.6 6.1 6.2 6.2 6.3	6.6 5.8 5.5 5.6 5.7	e3.9 e4.3 e4.3 e3.7 e3.5 e3.2	3.6 3.8 3.5 3.0 2.8 e3.5	3.4 e3.4 e3.5 	4.0 4.8 5.3 6.2 3.0 2.6	4.2 8.0 6.8 5.5 5.0	7.9 9.1 8.5 7.8 7.0 6.3	2.4 3.6 2.2 2.3 2.2	2.9 6.8 2.7 2.5 2.1 1.7	1.4 1.2 1.2 1.4 1.1	0.63 0.77 e0.75 e0.70 e0.70
MEAN MAX MIN	7.14 14 5.6	6.13 12 5.1	3.2	2.7	3.0	3.62 6.2 2.6	2.9	8.69 28 4.4	2.2	2.17 7.5 1.1	3.51 47 0.60	0.67 0.98 0.45
MEAN MAX (WY) MIN (WY)	4.22 7.15 2002 1.29 2001	4.64 6.13	3.90 5.68 2002 2.12 2001	4.18 4.63 2001 3.72 2002	YEARS 2000 16.0 37.3 2001 3.89 2002	9.63 20.1 2001 3.62 2002	6.75 13.2 2001 2.54 2000	9.84 17.7 2001 3.11 2000	21.0 52.5 2001 4.17 2002	10.0 23.8 2001 2.17 2002	4.86 6.65 2001 3.51 2002	3.95 10.7 2001 0.45 2000
SUMMARY	STATISTI	CS	FOR 20	01 CALE	ENDAR YEAR		FOR 2002 WAT	ER YEAR		WATER YE	ARS 2000	- 2002
LOWEST ANIUAL ANNUAL ANIUAL ANIUAL ANIUM MAXIMUM INSTANTANTANTANTANTANTANTANTANTANTANTANTANT	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY PEAK STA ANNEOUS LO ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW DS		423 0.80 0.93  29 9.4 4.4	Feb 24 Jan 4 Jan 1		4.51 47 0.45 0.58 225 6.81 0.36 <sup>a</sup> S 7.4 4.0 0.99	Aug 20 Sep 22 Sep 19 Aug 20 Aug 20 Sep 9,10		10.2 15.9 4.51 423 0.09 0.19 633 13.41 0.07 21 5.1		12 2000 24 2001

e Estimated

a Minimum recorded, may have been less during periods of estimated record.

92 MISSOURI RIVER BASIN

## 06815575 SQUAW CREEK NEAR MOUND CITY, MO

LOCATION.--Lat  $40^\circ09^\circ21^\circ$  long  $95^\circ15^\circ52^\circ$ , in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.26, T.62 N., R.39 W., Holt County, Hydrologic Unit 10240005, on right bank of downstream side of State Highway 59 bridge, 2.4 mi northwest of Mound City.

DRAINAGE AREA.--62.7 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

 ${\tt REMARKS.--Records}\ good\ except\ for\ estimated\ daily\ discharges,\ which\ are\ poor.\ U.S.G.S.\ satellite\ telemeter\ at\ station.$ 

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES  V OCT NOV DEC JAN EER MAD ADD MAY JUN JUL AUG SED												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	12 12 12 18 44	16 16 15 15	14 14 14 14 14	e6.8 e6.5 e6.5 e6.8 e7.5	e22 e19 e19 e18 e17	e9.0 e8.0 e7.0 e6.5 e11	8.6 8.2 7.9 7.9	15 15 14 14 14	18 17 16 16	9.6 9.3 9.4 12	3.9 3.6 3.5 3.6 3.4	2.1 2.0 1.6 1.7 1.6	
6 7 8 9 10	17 15 15 14 16	16 15 15 15	13 13 13 13	e8.0 e7.5 e7.0 e8.5	e15 11 11 13 13	11 9.8 9.9 12 10	8.2	159 40 29 25 21	15 15 15 14 15	9.5 9.2 9.1 8.8 8.5	3.4 3.5 3.0 3.1 3.1	1.5 1.4 1.2 1.2	
11 12 13 14 15	14 14 51 23 36	14 15 15 15 14	13 14 14 13 13	e12 11 11 11 11	e12 12 11 11 10	9.8 9.5 9.2 9.1 8.7	28 25 15 14 14	95 201 49 38 33	16 19 15 14 14	8.7 17 9.3 8.6 8.4	3.2 3.4 5.4 3.9 3.5	1.6 1.4 1.5 2.0 2.2	
16 17 18 19 20	30 23 21 20 19	14 14 14 13	12 13 12 12	10 e9.5 e9.0 10 e9.5	9.9 9.7 10 12 12	8.5 8.6 8.4 8.8 9.0	14 13 13 12 12	e31 e29 26 25 24	14 13 13 13 12	8.3 8.1 8.0 7.7 7.6	3.7 3.9 3.6 3.6 22	1.7 1.4 2.0 2.2 2.4	
21 22 23 24 25	18 20 20 18 17	14 13 13 27 21	12 12 12 e11 e10	11 10 10 10 e9.5	10 9.7 9.8 9.6 9.2		16 14 14 13	22 22 23 23 35	12 12 11 11	7.4 6.8 6.9 6.8 7.7	5.2 4.1 5.2 3.4 2.9	1.9 1.4 1.2 1.4	
26 27 28 29 30 31	16 16 17 16 17	16 14 14 14 14	e9.0 e9.0 e9.5 e9.8 e8.0 e7.0	9.7 9.7 9.4 8.8 e9.0 e15	e8.5 e8.0 e9.0 	8.7 9.1 8.8 9.8 9.4 8.7	12 20 19 16 15	23 24 21 20 19 18	11 11 10 10 9.8		2.7 2.6 2.4 2.3 2.2	2.0 1.7 1.8 1.7 1.4	
MEAN MAX MIN	20.0 51 12	15.1 27 13	12.0 14 7.0	9.46 15 6.5	12.2 22 8.0	9.02 12 6.5	13.3 28 7.9	37.0 201 14	13.6 19 9.8	8.95 25 4.1	4.05 22 2.2	1.66 2.4 1.2	
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER Y	EARS 2001	- 2002,	BY WATER	YEAR (WY)					
MEAN MAX (WY) MIN (WY)	11.5 20.0 2002 3.02 2001	10.5 15.1 2002 5.93 2001	7.35 12.0 2002 2.68 2001	8.76 9.46 2002 8.06 2001	46.8 81.4 2001 12.2 2002	35.5 62.0 2001 9.02 2002	25.5 37.7 2001 13.3 2002	37.4 37.8 2001 37.0 2002	66.5 119 2001 13.6 2002	24.7 40.5 2001 8.95 2002	9.80 15.5 2001 4.05 2002	12.4 23.1 2001 1.66 2002	
SUMMARY	STATISTI	CS	FOR 2	2001 CALEN	DAR YEAR	F	OR 2002 WA	TER YEAR		WATER YEA	ARS 2001	- 2002	
LOWEST ANIUAL SMAXIMUM MAXIMUM INSTANTA 10 PERCE 50 PERCE	MEAN ANNUAL MANNUAL MANNUAL ME DAILLY MEA SEVEN-DAY PEAK FLOI PEAK STA ANEOUS LOI ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW DS		781 1.2 2.0  68 24 9.9	Feb 24 Jan 3 Jan 1		201 1.2 Se 1.4 590 12.96 0.93 21 11 2.8	May 12 pp 8,9,23 Sep 6 May 12 May 12 Sep 26		24.5 36.0 13.1 781 1.2 1.4 2630 20.06 0.93 46 13 2.7	Jan Sep Jun i Jun i	2001 2002 24 2001 3 2001 6 2002 14 2001 14 2001 26 2002	

e Estimated

## 06817700 NODAWAY RIVER NEAR GRAHAM, MO

LOCATION.--Lat  $40^{\circ}12^{\circ}08$ ", long  $95^{\circ}04^{\circ}07$ ", in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.9, T.62 N., R.37 W., Holt County, Hydrologic Unit 10240010, at right downstream end of bridge on Highway A, 0.15 mi east of Maitland, and 1.5 mi west of Graham.

DRAINAGE AREA.--1,380  $\mbox{mi}^{\,2},$  approximately.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- October 1982 to current year.

REVISED RECORDS.--WDR MO-94-1: 1993 peak, September monthly and yearly mean discharge.

GAGE.--Water-stage recorder. Datum of gage is 852.09 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records poor. U.S. Army Corps of Engineers satellite telemeter at station.

	J J	DISCHAR	GE, CUBIC	FEET PER	R SECOND, W	WATER YEA		2001 TO 8	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e68	99	125	e52	e58	e100	104	368	372	e156	e105	39
2	e65	93	125	e48	e58	e90	100	300	328	e148	e98	34
3	e62	87	120	e48	e55	e73	88	282	292	e137	e94	30
4	e65	84	118	e48	e57	e76	83	257	274	e125	e90	28
5	121	81	115	e49	e58	e90	80	230	261	e115	e83	26
6	120	80	118	e50	e58	e110	79	494	248	e108	e79	23
7	108	78	115	e50	e70	153	80	794	232	e100	e74	23
8	100	74	105	e47	e73	161	91	366	211	e94	e72	30
9	82	72	98	e50	e85	188	109	294	194	e85	e70	29
10	72	77	98	e58	127	230	101	256	182	e79	e72	28
11	84	75	98	e70	136	217	102	473	186	e77	e76	27
12	90	76	110	100	190	216	112	4640	347	e83	e77	27
13	140	82	120	122	213	203	132	3290	1230	e540	e96	25
14	230	82	125	126	198	188	174	1660	1260	363	e98	28
15	266	81	125	136	209	174	180	1140	941	261	e190	34
16	198	83	120	134	231	169	159	961	618	192	e151	33
17	144	83	115	140	211	152	120	836	446	156	e120	32
18	115	82	110	154	196	141	105	742	388	133	e110	32
19	102	80	103	104	209	132	98	663	345	122	e112	36
20	95	79	98	114	240	124	91	610	321	112	e190	69
21	91	76	96	129	229	116	110	574	305	111	320	86
22	94	76	96	124	202	101	126	525	282	109	168	69
23	101	80	92	114	188	96	118	564	286	102	178	61
24	96	130	90	87	170	105	114	830	232	e77	165	56
25	119	211	e80	90	149	111	215	747	223	e68	150	52
26 27 28 29 30 31	143 103 93 90 93 101	218 194 165 145 135	e70 e74 e76 e64 e56 e56	120 123 134 e84 e65 e48	118 e115 e100 	100 124 121 134 130 114	150 167 282 348 465	780 609 512 494 429 408	219 204 198 e184 e165	e68 e79 e87 e100 e145 e115	107 84 73 63 52 43	46 45 52 55 54
MEAN MAX MIN IN.	111 266 62 0.09	102 218 72 0.08	100 125 56 0.08 N DATA FO	90.9 154 47 0.08	143 240 55 0.11 YEARS 1983	137 230 73 0.11	143 465 79 0.12 BY WATER	811 4640 230 0.68 YEAR (WY)	366 1260 165 0.30	137 540 68 0.11	112 320 43 0.09	40.3 86 23 0.03
MEAN	395	472	492	342	752	1068	1469	1942	1743	1524	537	647
MAX	2313	1735	2026	1199	1839	3155	3614	4606	4936	12460	2758	3364
(WY)	1987	1993	1993	1983	1983	1998	1984	1995	1984	1993	1987	1993
MIN	46.2	77.1	63.9	57.8	82.2	128	58.8	48.6	68.5	75.1	46.2	40.3
(WY)	2001	1989	2001	2000	1989	2000	1989	1989	1988	1988	1988	2002
SUMMARY	STATISTI	CS	FOR 2	001 CALEN	IDAR YEAR	F	OR 2002 WA	TER YEAR		WATER YE	ARS 1983	- 2002
LOWEST ANIUAL SANNUAL SANNUAL SANNUAL SANNUAL SANNUAL SANNUAL SANNUAL SON PERCE	MEAN ANNUAL MANNUAL ME DAILLY ME DAILLY MEA SEVEN-DAY PEAK FLO PEAK STA ANNEOUS LO RUNOFF (II ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		966  11300 50 57 9.50 2660 248 80	Feb 25 Jan 3,4 Jan 1		191 4640 23 27 5580 8.95 20 1.89 347 111 55	May 12 Sep 6,7 Sep 5 May 12 May 12 Sep 7		932 2870 186 52000 23 27 78300 26.16 20 9.18 2200 350 69	Sep Sep Jul 2 Jul 2	1993 2000 23 1993 6 2002 5 2002 23 1993 23 1993 7 2002

e Estimated

# 06817700 NODAWAY RIVER NEAR GRAHAM, MO--Continued (Ambient Water-Quality Monitoring Network)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1989 to October 1989, November 1992 to current year.

REMARKS.--This site replaced Nodaway River near Oregon, Missouri (06817800).

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 14	1100	ENVIRONM	ENTAL	85	10.2	103	8.4	431	14.5	200	56.4	14.9	3.36
MAR 05	1330	ENVIRONM	ENTAL	e90	14.4	104	8.0	502	1.0				
APR 22	1330	ENVIRONM	ENTAL	127	15.4	153	8.9	408	14.0				
MAY 14	1230	ENVIRONM	ENTAL	1620	10.1	104	7.8	336	15.5	140	40.6	9.47	5.16
JUN 10	1250	ENVIRONM	ENTAL	184	13.2	165	9.3	304	24.5				
JUL 09	1150	ENVIRONM	ENTAL	83	9.4	133	8.8	345	32.0	150	34.0	15.4	3.16
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLITD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 14 MAR	11.9	178	178	213	2	12.0	.3	33.7	28	246	<.04	.38	.07
05 APR		208	209	255	0				<10		.10	.40	1.81
22 MAY		174	174	186	13				39		<.04	.96	<.05
14 JUN	6.60	98	98	119	0	8.60	.3	19.0	1990	235	.32	4.8	11.3
10 JUL		109	108	95	18				83		<.04	2.1	1.66
09	10.8	137	137	145	11	11.9	. 4	28.2	94	207	<.04	1.3	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 14	E.004	<.06	E.01	.07	<1	53	160	4	235	1.3	E.02	<.1	<6
MAR									235		£.U2	<.⊥	<0
05 APR	.019	E.04	.04	.08	<1	K3	K14 93						
22 MAY	<.008	E.05		.17	K40	120							
14 JUN	.123	.10	.08	1.73	K33000	K37000	K16000	2	14100	1.6	<.04	1.2	<6
JUL	.066	<.06	<.02	.24	K20	97	100					 	
09	<.008	.11	.09	.38	<3	73	180	2	902	5.7	.05	E.1	<6

# 06817700 NODAWAY RIVER NEAR GRAHAM, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
NOV 14	21	E.05	М	307	<.01	.5	<1	2	<.002	<.004	<.002	<.005	.069
MAR 05									<.006	<.006	<.004	<.005	.054
APR 22									<.006	.283	.011	<.005	.827
MAY 14	<10	<.08	30	E1.7	.06	1.8	<1	94	<.006	.784	.025	<.005	15.1
JUN 10									<.006	.036	<.004	<.005	1.55
JUL 09	E5	.10	2	3.3	E.01	1.1	5	10	<.006	.015	<.004	<.005	.929
DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)
NOV 14 MAR	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.022	<.005	<.005	<.02	<.002	<.009
05 APR	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.019	<.005	<.005	<.02	.003	<.009
22 MAY	<.010	<.002	<.041	<.020	<.005	E.008	<.003	E.047	<.005	<.005	<.02	<.002	<.009
14 JUN	<.010	<.002	<.041	E.024	<.005	.019	<.003	E.476	<.005	<.005	<.02	<.002	<.009
10 JUL	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.153	<.005	<.005	<.02	<.002	<.009
09	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.111	<.005	<.005	<.02	<.002	<.009
DATE	ETHO- PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLIRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
NOV	- 005	<.003	- 004	- 02F	<.027	- 0E0	- 000	.022	- 000	- 000	- 007	- 003	- 007
14 MAR 05	<.005 <.005	<.003	<.004	<.035 <.035	<.027	<.050 <.050	<.006	.022	<.006 <.006	<.002	<.007 <.007	<.003	<.007 <.010
APR 22	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.150	<.006	<.002	<.007	<.003	<.010
MAY 14	<.005	<.003	<.004	<.035	<.027	<.050	<.006	3.12	.054	<.002	<.007	<.003	<.010
JUN 10	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.126	<.006	<.002	<.007	<.003	<.010
JUL 09	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.061	<.006	<.002	<.007	<.003	<.010

# 06817700 NODAWAY RIVER NEAR GRAHAM, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
NOV													
14	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02
MAR													
05	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
APR 22	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.034	<.02
MAY	~.004	<.UZZ	<.000	<.U11	<.01	<.004	<.010	V.011	<.02	<.010	<.02	<.U34	<.02
14	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	.039	<.02	<.034	<.02
JUN													
10	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
JUL													
09	<.004	<.022	<.006	<.011	.02	<.004	<.010	<.011	<.02	.010	<.02	<.034	<.02

DATE	THIO- BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)		0.7 μ GF, REC (μg/L)
NOV 14	<.005	<.002	<.009
MAR 05	<.005	<.002	<.009
APR 22	<.005	<.002	<.009
MAY 14 JUN	<.005	<.002	E.005
10 JUL	<.005	<.002	<.009
09	<.005	<.002	<.009

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

#### 06818000 MISSOURI RIVER AT ST. JOSEPH, MO

LOCATION.--Lat 39°45'12", long 94°51'28", in NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.17, T.57 N., R.35 W., Buchanan County, Hydrologic Unit 10240011, on left bank at left abutment of St. Joseph and Grand Island Railroad Bridge in St. Joseph, and at mile 448.2.

DRAINAGE AREA.--420,100  $\mathrm{mi}^2$ . The 3,959  $\mathrm{mi}^2$  in Great Divide basin are not included.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Gage-height records collected in vicinity 1873-99 are contained in reports of the Missouri River Commission; since 1900 in reports of the National Weather Service.

REVISED RECORDS. -- WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 788.19 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 21, 1931 nonrecording gage and from Oct. 21, 1931, to Dec. 31, 1933, water-stage recorder, both at same site at datum 5.50 ft higher.

REMARKS.--Water-discharge records good. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 397,000  ${\rm ft^3/s}$ , Apr. 22, 1952; maximum gage-height, 32.07  ${\rm ft}$ ; July 26, 1993; minimum discharge, 2,300  ${\rm ft^3/s}$ , Jan. 9, 1937.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 29, 1881, reached a stage of 27.2 ft, present datum, discharge, about 370,000  ${\rm ft}^3/{\rm s}$ , computed by the U.S. Army Corps of Engineers. Flood of June 1844 reached a stage of 24.5 ft, discharge, about 350,000  ${\rm ft}^3/{\rm s}$ , computed by the U.S. Army Corps of Engineers.

a Post-regulation period.

98 MISSOURI RIVER MAIN STEM

## 06818000 MISSOURI RIVER AT ST. JOSEPH, MO--Continued (Ambient Water-Quality Monitoring Network)

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to July 1992, November 1992 to current year.

PERIOD OF DAILY RECORD.-WATER TEMPERATURE: May 1984 to December 1984, July 1985 to September 1985, April 1986 to September 1986.
DISSOLVED OXYGEN: May 1984 to November 1984, July 1985 to September 1985, April 1986 to September 1986.

INSTRUMENTATION.--Water-quality monitor, May 1984 to December 1984, July 1985 to September 1985, April 1986 to September 1986.

REMARKS.--National Stream-Quality Accounting Network station October 1974 to September 1986. Ambient Water-Quality Monitoring Network station October 1969 to July 1992, November 1992 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 18	1045	ENVIRONMENT	TAL	36800	9.4	93	8.4	790	13.5				
NOV 16 16	1030 1035	ENVIRONMENT BLANK	TAL	37000 	9.7	96 	8.4	785 	14.0	260 	62.3 E.01	24.5	6.16 <.10
DEC 19	1035	ENVIRONMEN.	TAL	25300	11.3	90	8.4	780	5.0				
JAN 24 FEB	1125	ENVIRONMEN.	TAL	23900	11.7	88	8.4	785	2.6	290	74.3	25.5	5.94
21 21	1050 1051	ENVIRONMENT REPLICATE	TAL	27300 	10.7	88	8.4	709 	6.0				
07 APR	1045	ENVIRONMEN	TAL	20900	12.5	95	8.3	755	2.5				
24 MAY	1040	ENVIRONMEN	TAL	34000	9.4	97	8.5	752	15.5				
16 JUN	1135	ENVIRONMENT	TAL	39900	8.4	89	8.1	656	16.5	240	60.7	20.8	5.97
12 JUL	1050	ENVIRONMEN	TAL	39300	5.9	74	8.3	703	25.0				
11 AUG	1100	ENVIRONMEN	TAL	31500	6.8	93	8.4	803	30.0	250	59.8	23.5	5.73
14 SEP	1020	ENVIRONMEN	TAL	32000	6.7	86	8.4	782	26.0				
26	1215	ENVIRONMEN	TAL	31000	9.2	105	8.6	756	20.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	UNFLTRD UNFLTRD UNFLTRD INFLELD INFLECT INFLEC	ANC WATER NFLTRD IT FIELD mg/L as CaCO <sub>3</sub> ) 00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 18	DIS- SOLVED (mg/L as Na)	WATER	WATER NFLTRD IT FIELD mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 18 NOV 16	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD UNFLTRD UNFET FIELD I (mg/L as (TCaCO <sub>3</sub> ) (00410) (0	WATER NFLTRD IT FIELD mg/L as CaCO <sub>3</sub> ) 00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 18 NOV 16 16 DEC 19	DIS- SOLVED (mg/L as Na) (00930)	WATER IN UNFLIRD UNFLIRD IN FET FIELD IN (mg/L as (r CaCO <sub>3</sub> ) (00410) (0	WATER NFLTRD IT FIELD mg/L as CaCO <sub>3</sub> ) 00419)	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 18 NOV 16 16 DEC 19 JAN 24	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD UNFLTRD UNFLTRD IN (Mg/L as (mg/L	WATER NFLTRD IT FIELD mg/L as CaCO <sub>3</sub> ) 00419)  184  176	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 4	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 198 <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  99  50	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .89 .59	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .62 .48
OCT 18 NOV 16 16 DEC 19 JAN 24 FEB 21	DIS- SOLVED (mg/L as Na) (00930)  69.4 <.09 63.7	WATER UNFLTRD UNFLTRD UNFLTRD IN (FET FIELD IN (Mg/L as (TCaCO <sub>3</sub> ) (00410) (00410) (00410) (10	WATER NFLITRD IT FIELD mg/L as CaCO <sub>3</sub> ) 00419) 184 176  226 214	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 225 207  268 254 228	CAR-BONATE IT FIELD (mg/L as CO <sub>2</sub> ) (00447)  0 4 4 4 3	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.0 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  198 <.1  170	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  99  50 66 38 90	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.03 .09 .10	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .89 .59 .73 .57	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .62 .48 1.81 1.59 1.52
OCT 18 NOV 16 16 DEC 19 JAN 24 FEB 21 21 MAR	DIS- SOLVED (mg/L as Na) (00930) 69.4 <.09 63.7	WATER UNFLTRD UNFLTRD UNFLTRD (Mg/L as (TacCO <sub>3</sub> ) (00410) (00410) (00410) (104	WATER NFLITRD IT FIELD mg/L as CaCO <sub>3</sub> ) 000419) 184 176  226 214 191 	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 225 207  268 254 228 	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 4  4 4 3 	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.0 <.30  25.9	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  198 <.1  170	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  99  50 66 38 90 90	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.03 .09 .10 .09	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .89 .5973 .57 1.0 .96	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .62 .48 1.81 1.59 1.52 1.59
OCT 18 NOV 16 16 DEC 19 JAN 24 FEB 21 21 MAR 07 APR	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD UNFLT	WATER NFLITRD IT IT FIELD mg/L as CaCO <sub>3</sub> ) 000419)  184  176 226 214  191 203	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 225 207  268 254 228  247	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 4  4 4 3  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.0 <.30  25.9 	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  198 <.1  170	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  99  50 66 38 90 90 44	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.03 .09 .10 .09 .08	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .89 .5973 .57 1.0 .96	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .62 .48 1.81 1.59 1.52 1.59 1.40
OCT 18 NOV 16 16 DEC 19 JAN 24 FEB 21 21 MAR 07 APR 24 MAY	DIS- SOLVED (mg/L as Na) (00930)  69.4 <.09 63.7	WATER UNFLTRD UNFLT	WATER NFLITRD IT IT FIELD mg/L as CaCO <sub>3</sub> ) 00419)  184  176 226 214  191 203 187	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  225 207 268 254 228 247 215	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 4  4 4 3  0 7	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.0 <.30  25.9	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  198 <.1  170	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  99  50 66 38 90 90 44 252	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.03 .09 .10 .09 .08 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .89 .5973 .57 1.0 .96 .43 1.2	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .62 .48 1.81 1.59 1.52 1.59 1.40 .57
OCT 18 NOV 16 16 DEC 19 JAN 24 FEB 21 MAR 07 APR 24 MAY 16 JUN	DIS- SOLVED (mg/L as Na) (00930)  69.4 <.09 63.7 45.5	WATER UNFLTRD UNFLT	WATER NFLITRD IT IT FIELD mg/L as CaCO <sub>3</sub> ) 000419)  184  176 226 214  191 203 187 176	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  225 207 268 254 228 247 215 215	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 4  4 4 3  0 7	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.0 <.30  25.9   15.2	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  198 <.1  170	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  99  50 66 38 90 90 44 252 540	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.03 .09 .10 .09 .08 <.04 E.03	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .89 .5973 .57 1.0 .96 .43 1.2 2.4	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .62 .48 1.81 1.59 1.52 1.59 1.40 .57
OCT 18 NOV 16 16 19 JAN 24 FEB 21 21 MAR 07 APR 24 MAY 16 JUN 12 JUL	DIS- SOLVED (mg/L as Na) (00930)  69.4 <.09 63.7 45.5	WATER UNFLIRAD UNFLIRAD UNFLIRAD UNFLIRAD IN (MG/L as (MG	WATER NFLITRD IT IT FIELD mg/L as CaCO <sub>3</sub> ) 00419)  184  176 226 214  191 203 187 176 171	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  225 207 268 254 228 247 215 215 203	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 44 4 30 7 0 3	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.0 < .30 25.9 15.2	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  198 <.1 170 136	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  99  50 66 38 90 90 44 252 540 624	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  548 10  520    440	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.03 .09 .10 .09 .08 <.04 E.03 E.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .89 .5973 .57 1.0 .96 .43 1.2 2.4 2.4	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .62 .48 1.81 1.59 1.52 1.59 1.40 .57 2.77
OCT 18 NOV 16 16 DEC 19 JAN 24 FEB 21 21 MAR 07 APR 24 MAY 16 JUN 12 JUL 11 AUG	DIS- SOLVED (mg/L as Na) (00930)  69.4 <.09 63.7 45.5	WATER UNFLITRD UNFLED UNFLITRD UNFLED UNFLITRD UNFLED UNFLITRD UNFLITRD UNFLITRD UNFLED UNFLITRD UNFLITRD UNFLITRD UNFLITRD UNFLITRD UNFLED UNFLITRD UNFLED UNFLED UNFLED UNFLED UNFLITRD UNFLED UNF	WATER NFLITRD IT IT FIELD mg/L as CaCO <sub>3</sub> ) 00419)  184  176 226 214  191 203 187 176 171	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  225 207 268 254 228 247 215 215 203 202	CAR-BONATE IT FIELD (mg/L as CO <sub>2</sub> ) (00447)  0 4 4 4 3 0 7 0 3 3 3	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.0 <.30  25.9   15.2	RIDE, DIS- SOLVED (mg/L as F) (00950)  .5<.1  .5	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  198 <.1  170    136	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  99  50 66 38 90 90 44 252 540 624 129	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.03 .09 .10 .09 .08 <.04 E.03 E.04 <.04	GEN, AM- MONTA + ORGANIC TOTAL (mg/L as N) (00625)  .89 .5973 .57 1.0 .96 .43 1.2 2.4 2.4 .95	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .62 .48 1.81 1.59 1.52 1.59 1.40 .57 2.77 1.11
OCT 18 NOV 16 16 DEC 19 JAN 24 FEB 21 21 MAR 07 APR 24 MAY 16 JUN 12 JUN 11	DIS- SOLVED (mg/L as Na) (00930)  69.4 <.09 63.7 45.5	WATER UNFLIRAD UNFLIRAD UNFLIRAD UNFLIRAD IN (MG/L as (MG	WATER NFLITRD IT IT FIELD mg/L as CaCO <sub>3</sub> ) 00419)  184  176 226 214  191 203 187 176 171	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  225 207 268 254 228 247 215 215 203	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 44 4 30 7 0 3	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.0 < .30 25.9 15.2	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  198 <.1 170 136	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  99  50 66 38 90 90 44 252 540 624	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  548 10  520    440	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.03 .09 .10 .09 .08 <.04 E.03 E.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .89 .5973 .57 1.0 .96 .43 1.2 2.4 2.4	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .62 .48 1.81 1.59 1.52 1.59 1.40 .57 2.77

#### MISSOURI RIVER MAIN STEM 99

# 06818000 MISSOURI RIVER AT ST. JOSEPH, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 18	E.007	.07	.06	.23	760	K1700	280						
NOV 16 16	<.008	E.05	.04	.15	K1300	K1300	58	1 <1	569 4	2.5	E.02	<.1 <.1	<6 <6
DEC 19	.009	.11	.08	.21	320	310	130						
JAN 24 FEB	.008	.08	.08	.15	320	170	110	4	462	3.2	<.04	<.1	<6
21 21	.009 .011	.10 .11	.07	.30 .27	370	350	90						
MAR 07	.009	.07	.07	.15	K52	100	87						
APR 24	E.007	.06	.05	.38	72	1200	780						
MAY 16 JUN	.049	.10	.10	.69	<10	1400	600	2	5780	3.0	E.03	.3	<6
12 JUL	.013	.07	.06	.78	<10	770	K14000						
11 AUG	E.007	E.04	.04	.16	K20	97	52	2	612	3.2	E.04	E.1	<6
14 SEP	E.004	E.04	.04	.18	K140	120	100						
26	E.007	E.04	.03	.16	K14	49	K21						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT		DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (μg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Zn)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)			
	OCT 1 NOV 1 1	8 6 6	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 1 NOV 1 1 DEC 1	8 6 6 9	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 1 NOV 1 1 DEC 1 JAN 2	8 6 6 9	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 1 NOV 1 1 DEC 1 JAN 2 FEB	8 6 9 4	DIS- SOLVED (µg/L as Fe) (01046)  <10 <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E1.4 <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  2.2 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  6 1			
	OCT 1 NOV 1 1 DEC 1 JAN 2 FEB 2 2	8 6 9 4 1	DIS- SOLVED (µg/L as Fe) (01046)  <10 <10 	DIS- SOLVED (µg/L as Pb) (01049)  <.08 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  1 <1 1	NESE, DIS- SOLVED (µg/L as Mm) (01056)  E1.4 <2.0  7.5	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  2.2 <.3 3.3	DIS- SOLVED (µg/L as Zn) (01090)  4 2  2	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  6 1 6			
	OCT 1 NOV 1 1 1 DEC 1 JAN 2 FEB 2 2 2 MAR 0 APR	8 6 9 4 1 7	DIS- SOLVED (µg/L as Fe) (01046)  <10 <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  1 <1 1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E1.4 <2.0  7.5	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  2.2 <.3 3.3	DIS- SOLVED (µg/L as Zn) (01090)  4 2  2	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)			
	OCT 1 NOV 1 1 DEC 1 JAN 2 FEB 2 2 MAR 0 APR 2 MAY 1	8 6 9 4 1 7 4	DIS- SOLVED (µg/L as Fe) (01046)  <10 < <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08 <.08  <.08	TOTAL RECOV- REABLE (μg/L as Pb) (01051)  1 <1 1	NESE, DIS- SOLVVED (μg/L as Mn) (01056)  E1.4 <2.0  7.5	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  2.2 <.3  3.3	DIS- SOLVED (µg/L as Zn) (01090)  4 2  2	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  6 1 6			
	OCT 1 NOV 1 1 DEC 1 JAN 2 FEB 2 2 2 MAR 0 APR 2 MAY 1 JUN 1	8 6 9 4 1 7 4 6	DIS- SOLVED (µg/L as Fe) (01046)  <10 <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08 <.08  <.08	TOTAL RECOV- REABLE (µg/L as Pb) (01051)  1 <1 1 1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  E1.4 <2.0  7.5	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  2.2 <.3 3.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  6 1 6			
	OCT 1 NOV 1 1 1 DEC 1 1 JAN 2 2 FEB 2 2 2 2 MAR 0 0 APR 2 1 JUN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 6 9 4 1 7 4 6	DIS- SOLVED (µg/L as Fe) (01046)  <10 <10  <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08 <.08  <.08	TOTAL RECOV- REABLE (µg/L as Pb) (01051)  1 <1 1 1 1 1 1 1 1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  E1.4 <2.0 7.5 <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  2.2 <.3 3.3 2.9	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  6 1 6 45			
	OCT 1 NOV 1 1 DEC 1 JANN 2 FEB 2 MAR 0 APR 2 MAY 1 JUN 1 JUN 1 JUN 1 JUN 1 JUN 1 JUN 1 1 JUN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 6 9 4 1 7 4 6 2	DIS- SOLVED (µg/L as Fe) (01046)  <10 < <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08 <.08  <.08	TOTAL RECOV- REABLE (μg/L as Pb) (01051)  1 <1 1 1 1 10	NESE, DIS- SOLVVED (μg/L as Mn) (01056)  E1.4 <2.0  7.5   <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  2.2 <.3 3.3 2.9	DIS- SOLVED (µg/L as Zn) (01090)  4 2  2   2	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  6 1 6 45			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

#### 06819500 ONE HUNDRED AND TWO RIVER AT MARYVILLE, MO

LOCATION.--Lat  $40^{\circ}20^{\circ}45^{\circ}$ , long  $94^{\circ}49^{\circ}56^{\circ}$ , in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.15, T.64 N., R.35 W., Nodaway County, Hydrologic Unit 10240013, on right bank 150 ft upstream from bridge on U.S. Highway 136, 0.3 mi downstream from Thill Branch, 1 mi east of Maryville, and at mile 64.0.

DRAINAGE AREA.--515 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1932 to September 1990, March 22, 2001 to current year. April to June 1934 monthly discharge only published in WSP 1310. June 1934 to September 1971 published as "near Maryville".

GAGE.--Water-stage recorder. Datum of gage is 954.65 ft above National Geodetic Vertical Datum of 1929. Nonrecording gage prior to Sept. 15, 1958. Prior to June 20, 1934, at site 20 ft upstream and datum 10 ft higher. June 20, 1934 to July 19, 1971, at site 3 mi upstream at datum 15.68 ft higher. July 20, 1971 to September 1990, at site 20 ft upstream and datum 10 ft higher.

REMARKS.--Records good except for discharges above 5,000 ft<sup>3</sup>/s and estimated daily discharges, which are poor. Some regulation at low flow by City Waterworks. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 16, 1926 reached a stage of 25 ft, present datum from floodmark; discharge, 14,500 ft<sup>3</sup>/s.

DAILY MEAN VALUES DAY NOV DEC JAN FEB MAY SEP e7.8 e5.0 e11 3.9 7.1 e7.4 e11 5.8 e5.8 3.5 9 9 e7 0 e5 8 e10 5.6 3 4 e2.9 e7.0 e6.0 e9.0 5.1 e8.0 5.0 e6.6 e12 e2.9 e9.0 e6.6 5.0 e2.8 e7.2 5.5 e2.7 e2.7 e12 e17 e2.6 4.9 e2.7 e2.7 579 2.8 1 0 4.5 9.9 6.6 4 1 e175 5.6 4.3 12 33 4.3 9.8 3.8 5.6 8.7 17 7.4 7.0 7.9 e9.5 7 7 4 7 e9.0 5.3 9.2 7.3 e10 e11 3 5 e10 3.6 e10 2.7 e9.0 8.6 5.9 e8.2 6.2 ---5.1 2.8 22.7 MEAN 21.2 18.8 13.1 27.8 35.7 52.4 47.0 11.3 4.85 16.5 MTN 9.9 8 0 5.0 9 0 6.4 4.5 2.6 0.05 0.74 0.10 0.03 0.05 0.04 0.03 0.06 0.08 0.04 0.01 IN. STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY) MEAN 81.0 MAX (WY) MIN 0.05 0.59 1.12 0.11 2.09 3.42 0.74 0.11 5.18 0.50 0.18 0.03 (WY) SUMMARY STATISTICS FOR 2002 WATER YEAR FOR PERIOD OF RECORD ANNUAL MEAN 50.4 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 18.6 HIGHEST DAILY MEAN Oct 12 1973 May 12 2.6 LOWEST DAILY MEAN Sep 0.00 Several Years ANNUAL SEVEN-DAY MINIMUM 1977.1988 Sep 0.00 MAXIMUM PEAK FLOW May 12 19.25a MAXIMUM PEAK STAGE 13.43 May 12 Oct 12 1973 INSTANTANEOUS LOW FLOW 0.00 Several Years 2.5 Sep 30 ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 2.6

e Estimated

Former Datum.

#### 06820500 PLATTE RIVER NEAR AGENCY, MO

LOCATION.--Lat 39°41'20", long 94°42'15", in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.10, T.56 N., R.34 W., Buchanan County, Hydrologic Unit 10240012, on left bank 10 ft downstream from bridge of U.S. Highway 169, 1.5 mi downstream from Third Fork, 3.5 mi northeast of Agency, and at mile 66.8.

DRAINAGE AREA. -- 1,760 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1924 to August 1930, published as "at Agency"; May 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 807.38 ft above National Geodetic Vertical Datum of 1929. May 22, 1924, to Aug. 9, 1930, nonrecording gage at site 4 mi downstream at different datum; May 13, 1932, to Nov. 14, 1965, nonrecording gage at same site and datum; Nov. 15, 1965, to Oct. 25, 1989, water-stage recorder at site 150 ft upstream at present datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

		DISCHARGE	C, CUBIC	FEET PER		WATER Y		BER 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	198 176 165 135 143	149 151 173 153 163	142 132 127 125 123	e50 e50 e56 e54 e56	e130 e128 e112 e110 e112	e160 e140 e140 e155 e175	e257 e231 e195 e172 e159	543 448 398 366 317	461 403 357 333 320	114 106 96 104 229	52 44 39 34 33	38 35 31 34 27
6 7 8 9 10	153 227 189 170 180	147 146 146 141 124	120 120 119 113 109	e58 e58 e60 e75 e82	e120 e130 156 190 227	e185 e213 e244 459 472	e151 e162 e211 378 331	2990 3380 1730 995 678	304 283 264 247 234	118 104 95 90	32 32 30 29 30	25 23 22 19 19
11 12 13 14 15	195 164 161 147 309	137 148 140 126 117	108 124 142 132 133	e90 e115 e125 134 141	198 213 211 216 226	e382 e387 e394 e342 e326	259 263 439 334 277	5810 12300 6970 2160 1320	248 2320 802 483 429	90 276 151 89 139	34 40 40 40 43	18 17 17 18 20
16 17 18 19 20	625 353 231 195 199	109 108 105 108 105	138 124 120 114 102	147 133 125 186 145	229 232 229 e218 e220	e251 e197 e182 e174 e161	257 233 210 203 216	987 825 747 738 623	295 238 266 223 180	121 86 72 64 62	43 46 47 49 117	19 19 20 34 30
21 22 23 24 25	162 146 170 204 267	118 117 105 185 194	95 99 91 79 e65	140 127 133 133 124	e225 e238 e250 236 221	e156 e148 e146 e150 e154	570 667 387 316 280	548 499 477 497 1150	165 155 144 135 126	76 60 52 47 44	174 242 127 115 154	26 24 57 62 49
26 27 28 29 30 31	229 208 172 154 153 153	215 249 197 162 149	e68 e68 e64 e72 e65 e55	130 134 138 135 e130 e130	186 e175 e155 	e165 e174 e185 e197 364 311	274 412 1320 736 649	864 1000 750 600 712 574	124 296 247 174 136	57 58 50 59 73 66	99 82 69 59 50 42	40 33 30 28 27
MEAN MAX MIN IN.	204 625 135 0.13	146 249 105 0.09	106 142 55 0.07	110 186 50 0.07	189 250 110 0.11	235 472 140 0.15	352 1320 151 0.22	1677 12300 317 1.10	346 2320 124 0.22	94.8 276 44 0.06	66.7 242 29 0.04	28.7 62 17 0.02
MEAN MAX (WY) MIN (WY)	645 8584 1974 0.02 1957	556 4620 1962 6.14	375 3248 1983 5.59 1939	376 3714 1974 2.72 1940	842 4912 1973 14.0 1940	1360 6345 1979 12.7 1938	1509 6835 1973 9.89 1956	1667 10020 1995 26.9 1956	2015 13640 1947 41.7 1988	1180 21280 1993 10.2 1936	446 2935 1987 2.62 1934	878 7853 1926 6.76 1955
SUMMARY	STATISTI	CS	FOR 2	001 CALEN	DAR YEAR		FOR 2002	WATER YEAR		FOR P	ERIOD OF	RECORD
LOWEST ANIUAL ANNUAL ANIUAL ANIUAL ANIUAL ANIUAL ANIUAL 10 PERC.	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY PEAK FLO PEAK STA ANEOUS LO RENT EXCEE ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		1454  16600 36 39 11.22 3790 460 114	Feb 25 Jan 2 Jan 1		298  12300 17 18 13000 23.17 17 2.30 474 147 40	Sep 9 May 12 May 12		987 4108 67.4 57500 0.00 0.00 60800 36.07 0.00 7.62 2130 198 24	A A Jul Jul	1993 1934 25 1993 tt Times tt Times 25 1993 25 1993 tt Times

e Estimated

## 06821080 LITTLE PLATTE RIVER NEAR PLATTSBURG, MO

LOCATION.--Lat 39°34'04", long 94°24'24", in SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.20, T.55 N., R.31 W., Clinton County, Hydrologic Unit 10240012, on U.S. Highway 116 bridge, 0.4 mi east of the junction with U.S. Highway 33, and 2.5 mi east of Osborn.

DRAINAGE AREA.--65.4 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1, 1999 to Sept. 30, 2000, Oct. 1, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage unknown.

REMARKS.--Records fair except for period July 21 to Aug. 31 and estimated daily discharges, which are poor.

		DISCHAF	RGE, CUBIO	C FEET PER		WATER YE MEAN VA		R 2001 TO	SEPTEMBER	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.8 5.9 7.0 7.5 23	3.5 3.2 2.9 3.3 3.7	4.8 4.7 4.7 4.7 5.3	e0.40 e0.32 e0.25 e0.25 e0.40	e1.0 e1.2 e1.4 e1.5 e1.4	e2.0 e1.0 e0.90 e0.80 e1.3	9.9 10 11 10 9.8	12 10 8.2 7.1 6.5	5.2 4.6 4.0 3.8 4.0	0.44 0.42 0.42 0.39 0.35	0.54 0.22 0.14 0.12 0.10	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	13 7.5 6.3 6.4 11	3.8 3.7 3.5 3.2 3.1	5.2 4.9 4.7 4.2 4.1	e0.45 e0.80 e0.80 e1.2 2.1	e1.7 2.5 5.0 19	e3.0 8.8 9.3 20	10 11 21 75 23	1160 140 37 27 15	3.9 3.4 3.0 2.8 2.7	0.23 0.15 0.12 0.10 0.12	0.06 0.02 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	19 10 7.8 8.9 229	3.1 3.1 3.1 4.1 4.8	4.0 5.0 9.1 7.9 4.6	2.1 2.2 2.1 2.1 1.9	9.3 6.4 4.2 3.6 3.1	9.0 7.4 6.6 6.2 5.7	13 9.7 7.8 6.8 6.5	733 961 197 51 29	3.6 23 11 4.7 2.9	0.11 0.10 0.09 0.05 0.05	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	134 16 5.1 2.3 1.5	4.8 4.8 5.1 6.2 5.8	3.4 2.8 2.6 2.4 2.2	1.7 1.5 1.4 1.5	2.9 2.6 2.4 4.1	5.2 4.8 5.0 5.3 5.7	6.1 5.6 5.2 5.0 5.1	22 17 14 12 10	2.2 1.6 2.4 1.8 1.2	0.02 0.02 0.04 0.04 0.01	0.00 0.00 0.04 0.05 0.42	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	1.7 2.5 2.6 3.5 4.1	5.5 5.4 5.5 7.4 8.6	2.0 2.3 2.3 2.1 e1.7	1.6 1.8 2.1 2.2 1.9	7.9 5.4 4.5 4.1 3.6	5.5 5.3 5.5 6.9 9.4	126 46 17 11 8.3	9.4 8.7 8.7 11 55	1.9 1.7 1.3 1.0 0.86	0.00 0.00 0.00 0.00 0.00	0.31 0.17 0.49 0.38 0.19	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	3.6 2.9 2.8 3.3 3.2 3.4	7.8 6.5 5.7 5.2 4.9	e0.90 e1.0 e1.1 e1.0 e0.50 e0.45	1.7 1.7 1.7 1.6 e2.0 e1.7	2.9 e2.1 e1.8 	9.4 8.7 9.8 11 11	7.0 253 130 29 17	17 18 15 10 7.3 6.0	0.69 0.57 0.49 0.45 0.46	0.00 0.00 0.93 4.3 1.8	0.14 0.10 0.06 0.02 0.00	0.00 0.00 0.00 0.00 0.00
MEAN MAX MIN IN.	18.1 229 1.5 0.32	4.71 8.6 2.9 0.08	3.44 9.1 0.45 0.06	1.45 2.2 0.25 0.03	4.84 19 1.0 0.08	6.89 20 0.80 0.12	30.2 253 5.0 0.51	117 1160 6.0 2.07	3.37 23 0.45 0.06	0.37 4.3 0.00 0.01	0.12 0.54 0.00 0.00	0.00 0.00 0.00 0.00
STATIST	CICS OF MOD	NTHLY MEA	AN DATA FO		OF RECORD		ER YEAR (	WY)				
MEAN MAX (WY) MIN (WY)	9.50 18.1 2002 0.87 2000	3.47 4.71 2002 2.23 2000	4.04 4.65 2000 3.44 2002	1.54 1.64 2000 1.45 2002	4.05 4.84 2002 3.29 2000	8.73 10.6 2000 6.89 2002	17.4 30.2 2002 4.56 2000	65.5 117 2002 13.7 2000	70.1 137 2000 3.37 2002	4.96 9.55 2000 0.37 2002	7.17 14.2 2000 0.12 2002	21.4 42.8 2000 0.00 2002
SUMMARY	STATISTIC	CS			FOR 20	02 WATER	YEAR			FOR F	PERIOD OF F	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME DAILY MEA DAILY MEA DEVEN-DAY 1 PEAK FLOI 1 PEAK STA ANDOUS LOI RUNOFF ( II) ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS			16.  116 0.0 0.0 0.0 252 15.3 0.0 3.3 1 3.0.0	0 M 0 Many 0 Many 0 M 0 M 0 M 0 Many 3	ay 6 Days Days ay 6 ay 6 Days			18.1 20.2 16.1 2180 0.00 0.00 5650 17.05 0.00 3.77 13 2.1	Many Days Many Days Jun 24	2002 4 2000 4 2000

e Estimated

#### 06821140 SMITHVILLE RESERVOIR NEAR SMITHVILLE, MO

LOCATION.--Lat 39°23'50", long 94°33'25", SW  $\frac{1}{4}$  sec.13, T.53 N., R.33 W., Clay County, Hydrologic Unit 10240012, in control tower at outlet works on the Little Platte River, 1.0 mi northeast of Smithville, and 5.0 mi north of Kansas City.

DRAINAGE AREA. -- 213 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1981 to current year. Records collected at same site since 1976 are available from the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is formed by a rolled earthfill type dam. Storage began on July 13, 1976. An uncontrolled limited service type spillway, 50 ft wide, is located at the right abutment. Capacity of surcharge pool 182,209 ac-ft (elevation 876.2 ft to 891.1 ft); of flood control pool 101,800 ac-ft (elevation 864.2 to 876.2 ft); and of multipurpose pool 144,600 ac-ft (elevation 799.0 ft to 864.2 ft). Lake is used for flood control, water supply, water-quality control, recreation, and fish and wildlife enhancement. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION. -- Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 225,000 ac-ft, July 28, 1993, maximum elevation 874.31 ft; minimum, 2,360 ac-ft, Jan. 13, 1980, elevation, 819.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 160,000 ac-ft, May 17, elevation, 866.74 ft; minimum, 129,000 ac-ft, Feb. 8, elevation, 862.30 ft.

			ELEVATI	ON, IN FE		YEAR OCT	OBER 2001	TO SEPTE	MBER 2002			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	865.65 865.61 865.58 865.56 865.56	865.12 865.14 865.14 865.14	865.01 865.01 865.01 865.03 865.04	864.24 864.21 864.17 864.12 864.09	862.50 862.48 862.46 862.42 862.39	862.51 862.53 862.51 862.49 862.48	862.65 862.67 862.63 862.58 862.61	863.82 863.81 863.82 863.82	866.10 866.03 865.95 865.88 865.84	864.67 864.64 864.62 864.66 864.65	864.19 864.17 864.12 864.11 864.10	863.80 863.79 863.77 863.75 863.73
6 7 8 9 10	865.55 865.52 865.49 865.45 865.43	865.14 865.14 865.16 865.13 865.10	865.07 865.06 865.06 865.05 865.03	864.07 864.03 863.99 863.99 863.97	862.37 862.34 862.30 862.31 862.36	862.51 862.55 862.54 862.59 862.59	862.56 862.55 862.57 862.71 862.78	864.21 865.13 865.20 865.32 865.33	865.74 865.68 865.60 865.53 865.46	864.65 864.64 864.63 864.61 864.59	864.08 864.05 864.01 863.98 863.96	863.71 863.69 863.68 863.67 863.65
11 12 13 14 15	865.43 865.41 865.37 865.33 865.29	865.10 865.10 865.10 865.10	865.03 865.00 865.01 865.00 864.97	863.97 863.96 863.96 863.93 863.90	862.34 862.33 862.37 862.37 862.38	862.60 862.60 862.60 862.64 862.66	862.81 862.84 862.86 862.86 862.89	865.48 866.06 866.53 866.63	865.39 865.37 865.34 865.28 865.22	864.57 864.54 864.52 864.50 864.46	863.94 863.92 863.90 863.89 863.86	863.61 863.59 863.56 863.53 863.52
16 17 18 19 20	865.54 865.58 865.56 865.52 865.48	865.10 865.10 865.10 865.12 865.10	864.92 864.90 864.87 864.84 864.79	863.90 863.88 863.85 863.77 863.59	862.39 862.40 862.43 862.43 862.51	862.66 862.62 862.63 862.63	862.91 862.92 862.94 863.00 862.95	866.71 866.74 866.66 866.60 866.55	865.16 865.10 865.03 864.99 864.94	864.45 864.41 864.40 864.39 864.35	863.84 863.84 863.91 863.91	863.51 863.50 863.47 863.49 863.48
21 22 23 24 25	865.44 865.40 865.36 865.34 865.24	865.07 865.06 865.06 865.08 865.07	864.76 864.71 864.66 864.61 864.56	863.47 863.36 863.26 863.16 863.07	862.52 862.54 862.54 862.57 862.59	862.64 862.61 862.59 862.59 862.64	863.15 863.26 863.31 863.35 863.35	866.47 866.40 866.34 866.30 866.31	865.00 864.96 864.90 864.84 864.78	864.34 864.31 864.29 864.24 864.22	863.90 863.90 863.92 863.93 863.91	863.47 863.45 863.43 863.39 863.36
26 27 28 29 30 31	865.18 865.16 865.15 865.13 865.13	865.09 865.07 865.06 865.04 865.03	864.50 864.47 864.44 864.39 864.34	862.93 862.77 862.60 862.50 862.56 862.53	862.54 862.50 862.50 	862.60 862.60 862.60 862.68 862.65	863.35 863.37 863.69 863.74 863.78	866.29 866.31 866.32 866.28 866.24	864.77 864.76 864.75 864.73 864.70	864.19 864.17 864.23 864.22 864.21 864.20	863.91 863.91 863.89 863.88 863.84	863.34 863.31 863.29 863.28
MEAN MAX MIN	865.41 865.65 865.13	865.10 865.16 865.03	864.82 865.07 864.30	863.61 864.24 862.50	862.43 862.59 862.30	862.59 862.68 862.48	862.99 863.78 862.55	865.75 866.74 863.81	865.26 866.10 864.70	864.44 864.67 864.17	863.95 864.19 863.82	863.54 863.80 863.28
( - ) ( = )	148000 -5000	148000 0	142000 -6000	130000 -12000	130000 0	131000 +1000	139000 +8000	156000 +17000	145000 -11000	142000 -3000	139000 -3000	135000 -4000

CAL YR 2001...- 9000 WTR YR 2002...-18000

<sup>(-)</sup> Contents, in acre-feet, at the end of the month.

<sup>(=)</sup> Change in contents, in acre-feet.

#### 06821150 LITTLE PLATTE RIVER AT SMITHVILLE, MO

LOCATION.--Lat 39°23'17", long 94°34'44", in NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.23, T.53 N., R.33 W., Clay County, Hydrologic Unit 10240012, on left bank behind city equipment shelter on old bridge abutment, 500 ft upstream from town bridge in Smithville, 1,500 ft upstream from bridge on U.S. Highway 169, 0.5 mi downstream from Wilkerson Creek, 2.4 mi downstream from Smithville Lake, and at mile 11.1.

DRAINAGE AREA. -- 234 mi<sup>2</sup>.

PERIOD OF RECORD. -- June 1965 to current year. Occasional measurements 1942, 1943, 1946, 1962-65.

REVISED RECORDS. -- WRD MO 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 778.18 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to Mar. 23, 1966, nonrecording gage at site 1,500 ft downstream at same datum.

REMARKS.--Records fair except for October and November and estimated daily discharges, which are poor. Construction of dam for Smithville Lake (06821140) began in June 1974 and partial regulation began Aug. 6, 1977. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1947 reached a stage of 37.4 ft.

REVISIONS.--The date of the maximum stage (31.87 ft) of the 2001 water year is Sept. 17, 2001. Date published in WDR MO-01-1 was incorrect.

		DISCHA	RGE, CUBI	C FEET PER	R SECOND, N DAILY	WATER YEA MEAN VAI		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	202 201 161 115 188	15 15 15 16 16	9.6 9.7 9.8 9.7 9.6	121 121 120 120 120	144 143 143 148 142	33 34 33 33 33	17 17 16 16 16	23 21 18 17 e17	322 320 318 319 325	8.5 8.4 10 21 17	7.8 7.8 7.7 7.8 7.9	6.7 6.6 6.5 5.7 5.6
6 7 8 9 10	134 122 130 130 132	15 14 13 13 15	9.3 9.3 9.2 9.4 20	121 120 98 72 71	141 143 153 120 34	36 34 34 49 39	16 17 23 55 17	e609 e292 e121 e72 e60	318 316 315 314 314	10 9.2 8.9 8.4 8.0	7.9 7.8 8.0 8.0	5.5 4.9 4.9 5.5 5.7
11 12 13 14 15	133 130 130 130 305	14 14 14 13 12	80 130 139 131 127	69 67 67 69	27 24 22 22 21	36 35 34 33 30	14 23 17 14 13	e107 e336 e64 e44 38	342 572 225 215 211	7.8 7.3 7.3 7.7 7.6	8.3 8.6 8.9 8.8 8.7	5.5 5.6 5.5 5.5 5.9
16 17 18 19 20	235 225 216 214 213	12 12 13 13 e12	127 127 126 126 125	68 68 292 552 547	20 20 20 27 84	29 30 30 30 31	13 12 12 17 33	111 260 340 335 333	208 206 207 205 204	7.3 7.2 7.1 7.0 7.0	9.1 9.1 14 9.4 7.9	5.8 5.4 6.2 6.4 6.1
21 22 23 24 25	214 216 218 218 218	12 13 12 15 13	125 126 126 125 125	544 545 543 542 544	34 28 26 24 23	30 29 30 30 31	786 67 38 29 24	329 327 326 327 384	203 203 202 133 10	7.0 6.9 6.9 7.7 8.1	7.4 7.4 9.2 8.5 7.8	6.0 5.9 6.3 6.4 6.2
26 27 28 29 30 31	114 11 11 11 11 14	11 9.8 9.3 9.3 9.6	125 124 124 123 123 122	546 545 401 198 139 144	21 20 26 	30 29 31 31 28 18	21 203 70 31 26	332 558 351 334 328 324	9.6 9.4 9.1 9.1 9.0	7.9 8.0 8.7 11 8.8 8.0	7.5 7.3 7.0 7.0 7.0 6.8	5.7 6.2 6.3 5.6 5.2
MEAN MAX MIN IN.	152 305 11 0.75	13.0 16 9.3 0.06	87.5 139 9.2 0.43	246 552 67 1.22	64.3 153 20 0.29	32.0 49 18 0.16	55.8 786 12 0.27	230 609 17 1.13	219 572 9.0 1.04	8.76 21 6.9 0.04	8.22 14 6.8 0.04	5.84 6.7 4.9 0.03
STATIST	rics of M	ONTHLY ME.	AN DATA F	OR WATER	YEARS 1977	- 2002 <sup>a</sup>	BY WATER	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	179 960 1986 1.01 1977	180 1358 1999 2.06 1977	99.4 466 1993 0.05 1977	90.8 563 1993 0.07 1977	89.9 341 2001 10.3 1977	170 825 2001 4.73 1981	196 640 1978 9.85 1981	266 850 1993 11.1 2000	252 809 1995 13.3 1988	253 879 2001 8.76 2002	174 1206 1993 7.65 1980	143 1006 1977 5.84 2002
SUMMARY	Y STATIST	ICS	FOR	2001 CALEN	NDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	ARS 1977	- 2002 <sup>a</sup>
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANT ANNUAL 10 PERC	T ANNUAL M ANNUAL M T DAILY M DAILY ME:	EAN EAN AN Y MINIMUM OW AGE OW FLOW INCHES) EDS EDS		299  1720 5.9 7.7 17.36 992 124 9.8	Jul 15 Sep 12 Aug 16		786 4.9 5.4 1770 27.05 4.8 St 5.46 315 26 7.0	Apr 21 Sep 7,8 Sep 5 Apr 21 May 6	b	175 476 35.4 7810 0.05 0.05 21000 36.44 0.00 10.15 532 21 8.5	Jul 1 Dec 1-1 Dec Aug 1 Aug 1 Many	1 1976 13 1982

Post-regulation period.
Occurred during period of backwater.

#### 06821190 PLATTE RIVER AT SHARPS STATION, MO

LOCATION.--Lat 39°24'03", long 94°43'36", in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.16, T.53 N., R.34 W., Platte County, Hydrologic Unit 10240012, on downstream side of center pier at Sharps Bridge, 0.2 mi upstream from Jowler Creek, 3.3 mi downstream from Little Platte River, 3.6 mi south of Camden Point, and at mile 25.1.

DRAINAGE AREA. -- 2,380 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- December 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 754.23 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

REMARKS.--Water-discharge records fair except for the period Aug. 10 to Sept. 30, and estimated daily discharges, which are poor. Some regulation from Smithville Lake (station 06821140), 17.0 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBI	C REEL PER		MEAN VA		R 2001 TO	SEPTEMBE	SR 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	487	245	248	e170	255	e170	374	1040	1120	215	e105	56
2	468	244	230	e150	e235	e175	314	876	970	176	e100	51
3	443	234	219	e150	e235	e155	269	687	878	155	e78	46
4	363	252	213	e155	e230	e145	228	567	810	158	e65	42
5	550	255	214	e180	e235	e165	202	486	816	186	e58	39
6	568	236	212	e170	e250	221	188	3660	771	298	e54	40
7	442	225	204	e175	e295	243	182	8300	721	188	e48	37
8	461	213	197	e160	343	248	204	4850	683	137	e46	30
9	442	201	193	e150	465	286	651	2820	643	124	e45	27
10	445	194	186	e175	395	477	773	1680	611	111	41	25
11	447	192	214	e195	398	506	559	2960	632	101	40	24
12	457	188	329	226	320	375	420	9800	1500	106	40	22
13	403	188	436	225	309	371	413	11200	3210	245	44	21
14	389	184	443	246	279	384	614	9890	1400	241	52	22
15	598	183	404	237	280	350	464	3890	992	131	66	25
16	1650	181	382	251	282	293	363	2130	914	145	75	28
17	1300	177	377	224	280	260	329	1760	738	160	84	26
18	824	174	370	260	279	242	298	1610	688	123	121	24
19	660	170	360	783	299	230	274	1480	708	99	132	37
20	587	166	344	761	502	222	290	1390	668	86	104	41
21	551	167	330	798	400	212	1570	1210	560	77	129	45
22	534	161	324	805	345	197	1540	1110	515	89	340	42
23	530	160	320	820	343	187	1190	1060	481	83	661	37
24	533	192	310	808	327	187	707	1070	448	71	360	33
25	558	338	254	804	295	198	526	1370	273	63	166	64
26 27 28 29 30 31	605 393 322 291 270 256	365 339 371 326 275	e190 e195 e200 e190 e200 e180	782 780 740 439 306 259	254 205 176 	208 205 212 237 246 404	428 666 1670 2040 1230	2150 2210 2020 1500 1230 1340	227 214 417 397 271	59 56 75 80 83 83	261 178 103 85 75 64	67 55 47 41 37
MEAN	543	226	273	400	304	258	632	2818	776	129	123	37.7
MAX	1650	371	443	820	502	506	2040	11200	3210	298	661	67
MIN	256	160	180	150	176	145	182	486	214	56	40	21
IN.	0.26	0.11	0.13	0.19	0.13	0.13	0.30	1.37	0.36	0.06	0.06	0.02
MEAN MAX (WY) MIN (WY)	1210 6847 1986 25.1 1989	1002 4932 1999 61.9 1989	1051 5005 1993 46.1 1989	598 2153 1983 50.1 1989	1371 3980 1982 37.6 1989	- 2002, 2116 8745 1979 110 1989	2628 6946 1993 93.0 1989	3442 12710 1995 157 1989	3059 10790 1984 75.2 1988	2853 21600 1993 52.5 1988	1003 3535 1987 47.7 1988	1309 7206 1993 37.7 2002
SUMMARY	STATISTI	CS	FOR :	2001 CALE	NDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	EARS 1979	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY 1 PEAK FLO 1 PEAK STA CANEOUS LO RUNOFF (I ENT EXCEE CENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS DS		2324 17100 51 56  13.26 5820 869 193	Feb 28 Jan 3 Jan 1		546  11200 21 24 11400 27.39 21a 3.12 1090 255 56	May 13 Sep 13 Sep 9 May 13,14 May 13,14 Sep 13		1805 5697 386 37300 12 Aug 14 314 316 36.43 12 Aug 10.31 4320 627 72	Jul 2: g 7,8,13,1: Aug ' Jul 2: Jul 2: g 7,8,13,1:	4 1989 7 1989 6 1993 6 1993

 $<sup>\</sup>ensuremath{\mathrm{e}}$   $\ensuremath{\mathrm{Estimated}}$  Occurred during periods of backwater due to bridge construction.

# 06821190 PLATTE RIVER AT SHARPS STATION, MO--Continued (Ambient Water-Quality Monitoring Network)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1979 to September 1995, November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 19	1040	ENVIRONM	ENTAL.	171	10.1	96	8.1	515	12.5	230	72.0	13.1	3.67
JAN 25	1100			807	13.6	100	8.3	295	2.0	140	42.4	7.72	4.51
MAR		ENVIRONM											
06 MAY	1120	ENVIRONM		224	14.6	115	8.1	513	4.0				
17 JUL	1145	ENVIRONM	ENTAL	1730	8.4	92	7.9	391	18.5	170	50.8	9.72	4.55
12	1125	ENVIRONM	ENTAL	109	4.5	59	8.0	474	27.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 19	13.7	224	226	276	0	17.3	.3	30.5	10	296	<.04	.56	. 24
JAN 25	9.63	126	126	154	0	12.8	. 2	17.1	126	176	.05	.72	.55
MAR 06		211	212	259	0				12		.09	.40	.98
MAY 17	9.42	134	134	164	0	10.6	.3	24.1	945	256	E.04	2.0	6.25
JUL 12		198	196	240	0						<.04	1.3	.41
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 19	E.004	E.03	.02	.13	<2	58	K40	3	106	1.1	<.04	<.1	<6
JAN 25	.013	<.06	E.01	.15	100	120	72	4	1010	1.1	<.04	<.1	E4
MAR 06	.011	<.06	.02	.10	K44	K20	120						
MAY 17	.090	.08	.08	.80	K840	970	2200	1	6830	1.8	<.04	. 4	E4
JUL 12	.012	E.05	.05	.31	K48	800	420						
		DATE  NOV     19 JAN     25 MAR     06 MAY     17 JUL	IRO DI SOLL (µg as (010 <1	N, LEA S- DI VED SOL /L (µg Fe) as 46) (010 3 E. 0 <.	LEAD, TOT S- REC VED ERA /L (µg Pb) as 49) (010  07 <1 08 2 - 08 14	D, MAN AL NES OV- DI BLE SOI /L (µg Pb) as 51) (010	GA- MERCO E, TOT S- RECO VED ERA /L (µg Mn) as 56) (719	CAL NIU COV- DI SIBLE SOI (/L (µg Hg) as 000) (011  01 01 03 1.	M, ZIN (SS- DI (SS- DI (SS- DI (SS- DI (MPG SOL) (1/L (MPG Zn) as (45) (010 4 2 5 <1 3 1	IC, TOI S- REC VVED ERA /L (µg Zn) as 90) (010	COV- BBLE /L Zn) 192)		
		12	-								-		

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

#### KANSAS RIVER BASIN 107

#### 06892350 KANSAS RIVER AT DESOTO, KS

LOCATION.--Lat 38°59'00", long 94°57'52", in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.27, T.12 S., R.22 E., Leavenworth County, Hydrologic Unit 10270104, on left bank at downstream side of bridge on county highway, north edge of DeSoto, 0.4 mi upstream from Kill Creek, and at mile 31.0.

DRAINAGE AREA.--59,756 mi<sup>2</sup>, of which a large area is noncontributing.

PERIOD OF RECORD.--July 1917 to current year. Monthly discharge only for some periods published in WSP 1310. Prior to October 1973, published as "at Bonner Springs."

REVISED RECORDS.--WSP 806: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 753.87 ft above National Geodetic Vertical Datum of 1929. July 9, 1917, to Apr. 23, 1934, nonrecording gage; Apr. 24, 1934, to Nov. 25, 1960, water-stage recorder at site 9.7 mi downstream at datum 11.81 ft lower; Nov. 26, 1960, to Feb. 9, 1961, nonrecording gage; Feb. 10, 1961, to Sept. 30, 1971, water-stage recorder at site 10.2 mi downstream at datum 17.81 ft lower; and Oct. 1, 1971, to Sept. 30, 1973, at site 10.2 mi downstream at datum 22.81 ft lower. Lowered gage datum 5.0 ft Sept. 30, 1996, to 753.87 ft.

REMARKS.--Records fair. Natural flow affected by lakes and reservoirs in Colorado, Nebraska, and Kansas, and by numerous diversions upstream from station. Diurnal fluctuations caused by hydroelectric plant 20.8 mi upstream; since storage capacity is small, daily flows are not affected appreciably. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

EXTREMES OUTSIDE PERIOD OF RECORD. -- Maximum stage known since at least 1844, that of July 13, 1951.

		DISCHAR	GE, CUBIC	C REEL PE		WATER Y Y MEAN V	EAR OCTOBE ALUES	R 2001 TO	SEPTEMB	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	15500 15100 9940 7110 6330	2050 2360 2410 2440 2450	1710 1680 1700 1620 1200	2820 2340 2190 1980 1790	2070 2160 2300 2310 2180	2110 2070 2030 1840 1420	1940 1760 1830 1870 1870	3240 3080 2890 2460 2310	8180 8610 8540 7310 9590	3500 3400 3430 3480 3500	1440 1130 1110 1130 1170	1060 1160 1020 1030 1140
6 7 8 9 10	5850 5230 4540 4240 3950	2430 2370 2310 2190 2260	1560 2030 1220 1650 1770	2150 2720 2470 2500 2710	2090 2380 1860 2220 2060	2390 2480 2170 1840 1980	1860 1850 1860 2250 2830	4500 10000 10700 8980 5580	7160 7180 7100 7110 7080	3460 3270 3260 3550 3840	1200 1200 1190 1160 1150	1090 1110 1100 1090 1130
11 12 13 14 15	3910 3630 3700 3560 3790	2260 2230 2180 2220 2160	1650 1590 1640 1620 1650	2530 2530 2390 2250 2150	2260 2470 2400 2260 2200	1880 1990 1850 1830 1800	2420 3060	5440 13200 15800 9150 6360	7030 7320 5960 3930 3470	3500 3240 3210 2950 2920	1140 1140 1450 1620 1500	993 941 1000 1250 1260
16 17 18 19 20	4470 4290 3860 3400 2780	2080 2120 2140 2230 2260	1690 1710 1670 1670 1770	2150 2180 1750 1470 2350	1890 1870 2020 2560 3090	1790 1780 1760 1630 1550	2330 2250 2160 2130 2290	5400 5880 10500 9900 7170	4250 4630 4910 4830 5320	2740 2370 2570 2350 2340	1190 1180 1480 2240 1450	1230 1030 1160 1200 1120
21 22 23 24 25	2640 2570 2640 2570 2490	2220 2140 2240 2510 2720	3330 4170 4280 4340 4340	3100 3100 3150 3100 2960	3120 2640 2290 2110 1920	1380 1520 1620 2120 2160	11400 6710 5230 3810 3020	4940 4190 3890 4160 7270	5520 5340 5800 5780 5880	2320 1840 1420 1320 1200	1800 1400 1150 1040 1020	1330 1320 1170 981 1020
26 27 28 29 30 31		2510 2380 2020 1840 1740	4270 4500 4450 4340 4130 3440	2750 2100 2110 2360 2060 2040	2020 1830 1480 	2190 2200 2150 1970 1870 1990	2810 3940 5230 3490 3210	5290 5330 7210 7410 7530 7840	5620 4890 4260 3870 3650	1200 1230 1270 1160 1490 1840	996 1070 1230 1080 1000 1020	1020 1020 1030 1030 1030
MEAN MAX MIN	4581 15500 2200	2249 2720 1740	2529 4500 1200	2395 3150 1470	2216 3120 1480	1915 2480 1380	3112 11400 1760	6697 15800 2310	6004 9590 3470	2554 3840 1160	1261 2240 996	1102 1330 941
STATIST	ICS OF MON	THLY MEAN	DATA FOR	R WATER Y	EARS 1918	- 2002,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)		1974	3637 21940 1974 465 1957	2909 15990 1973 364 1957	4525 20800 1949 635 1957	1973 632	9641 43570 1973 845 1956	11140 43270 1993 953 1989		11690 133200 1951 1106 1936	6951 66680 1993 455 1934	6592 44660 1951 525 1956
SUMMAR	Y STATISTI	CS	FOF	R 2001 CA	LENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 1918	3 - 2002
LOWEST HIGHES' LOWEST ANNUAL MAXIMUI INSTAN' ANNUAL 10 PERO 50 PERO	MEAN T ANNUAL ME ANNUAL ME T DAILY ME DAILY ME SEVEN-DAY M PEAK FIC RUNOFF (# CENT EXCEE CENT EXCEE	EAN EAN IN MINIMUM AGE DW FLOW AC-FT) EDS			Jun 2 Jan Jan	21 3 1	3057 15800 941 1020 21800 11.65 809 2213000 5880 2260 1160	May Sep Sep May May Sep	13 12 24 12 12 12	7476 30570 1326 486000 160 195 510000 37.30 160 5416000 17800 3390 1100	Jul Oct Oct Jul Jul Oct	1993 1956 14 1951 11 1956 9 1956 13 1951 13 1951 11 1956

108 MISSOURI RIVER MAIN STEM

#### 06893000 MISSOURI RIVER AT KANSAS CITY, MO

LOCATION.--Lat 39°06'43", long 94°35'16", in sec.32, T.50 N., R.33 W., Jackson County, Hydrologic Unit 10300101, on downstream side of right pier of Chicago, Burlington and Quincy Railroad Bridge at Kansas City, 1.4 mi downstream from Kansas River, and at mile 366.1.

DRAINAGE AREA. --484,100 mi<sup>2</sup>. The 3,959 mi<sup>2</sup> in Great Divide basin are not included.

PERIOD OF RECORD.--October 1897 to current year. Prior to August 1928 monthly discharge only, published in WSP 1310. Gage-height records collected at same site 1873-99 are contained in reports of the Missouri River Commission; those since 1900 are contained in reports of the National Weather Service.

REVISED RECORDS. -- WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 706.40 ft above National Geodetic Vertical Datum of 1929. Prior to May 4, 1931, nonrecording gage; May 4, 1931, to Aug. 23, 1934, water-stage recorder, at present site; Aug. 24, 1934, to May 15, 1947, water-stage recorder at site 200 ft upstream; May 16, 1947, to Feb. 28, 1948, nonrecording gage at present site; all gages prior to Oct. 1, 1989, at datum 10.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 573,000 ft<sup>3</sup>/s, July 14, 1951.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 16, 1844, reached a stage of 48.0 ft, present datum; discharge, about 625,000  ${\rm ft}^3/{\rm s}$ , computed by the U.S. Army Corps of Engineers.

e Estimated

a Post-regulation period.

### 06893500 BLUE RIVER AT KANSAS CITY, MO

LOCATION.--Lat  $38^{\circ}57'26"$ , long  $94^{\circ}33'31"$ , in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.28, T.48 N., R.33 W., Jackson County, Hydrologic Unit 10300101, on downstream side of right pier of bridge on Bannister Road, 0.4 mi downstream from Indian Creek, in Kansas City, and at mile 23.2.

DRAINAGE AREA. -- 188 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- May 1939 to current year.

REVISED RECORDS. -- WSP 926: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 753.73 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to July 1, 1939, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good. Low flow regulated by commercial plants above station. National Weather Service gageheight and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 17, 1928, reached a stage of about 39 ft, from information by the city of Kansas City.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER	R 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	32 27 25 27 602	31 30 27 31 32	33 33 33 32 29	42 40 41 41 42	277 235 232 196 140	51 84 67 59 68	24 21 22 21 24	139 124 99 88 82	107 89 77 130 138	20 20 22 58 37	25 23 27 27 25	21 19 19 20 23
6 7 8 9 10	102 66 51 40 86	27 30 29 24 30	32 31 30 30 30	42 44 40 41 39	114 102 97 93 87	73 65 61 287 102	22 24 184 177 75	239 448 1160 2270 370	75 62 54 143 129	26 22 85 21 36	24 25 24 22 22	23 24 24 26 26
11 12 13 14 15	49 37 33 32 659	31 31 31 31 28	30 123 151 58 48	38 36 36 37 36	84 73 68 66	80 70 64 55 53	56 51 44 43 40	1150 7970 1040 378 264	138 1560 203 122 90	60 60 42 21 18	35 32 970 87 51	25 25 24 109 99
16 17 18 19 20	206 102 78 62 52	28 29 30 42 31	46 44 42 44 42	37 36 33 48 57	61 58 57 586 480	50 46 44 44 48	36 37 32 196 482	375 396 257 178 146	71 59 50 43 37	17 15 15 490 166	41 69 61 170 57	36 26 63 273 74
21 22 23 24 25	46 41 37 40 41	27 29 28 240 63	46 44 42 41 42	51 45 43 42 40	180 117 94 81 71	36 34 35 35 40	2840 356 205 150 115	124 108 121 248 5320	32 29 25 24 27	40 26 23 21 17	36 29 32 25 25	40 29 27 25 23
26 27 28 29 30 31	39 34 32 30 29 29	50 45 40 36 35	42 43 44 44 46 40	40 41 40 47 269 772	63 56 52  	38 34 86 45 30 26	114 1750 611 238 174	459 407 260 199 158 130	123 162 35 25 22	16 17 35 270 43 28	25 23 22 21 20 21	21 21 20 20 20
MEAN MAX MIN IN.	89.2 659 25 0.55	39.9 240 24 0.24	45.6 151 29 0.28	72.1 772 33 0.44	138 586 52 0.77	61.6 287 26 0.38	272 2840 21 1.62	797 7970 82 4.89	129 1560 22 0.77	57.6 490 15 0.35	67.6 970 20 0.41	40.8 273 19 0.24
							BY WATER					
MEAN MAX (WY) MIN (WY)	132 790 1987 0.00 1940	111 926 1999 0.00 1940	95.8 726 1993 0.00 1940	94.4 445 1941 0.00 1940	132 740 1985 2.66 1940	188 1407 1973 4.36 1957	273 1279 1944 6.41 1954	268 1457 1990 17.8 1956	294 1285 1967 7.44 1953	168 1616 1951 1.72 1946	83.5 431 1982 0.94 1947	168 1395 1986 0.05 1939
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEA	AR	FOR 2002	WATER YEA	ıR	WATER YE	ARS 1939	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANT ANNUAL 10 PERC	MEAN  ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY 4 PEAK FLO A PEAK STA CANEOUS LO RUNOFF (I ENT EXCEE CENT EXCEE	AN AN AN MINIMUM W GE GE WW FLOW NCHES)		9020 24 29  18.64 416 89 31		4 9 3	7970 15 20 10400 24.58 13 10.94 239 42	May 1 Jul 17,1 Aug 2 May 1 May 1 Jul 27,2	.8 .9 .2 .2	167 437 12.8 20000 0.00 0.00 41000 44.46 0.00 12.13 280 46	Several At Sep	1993 1956 13 1961 1 Years 5 Times 13 1961 13 1961 1 Years

#### 06893500 BLUE RIVER NEAR KANSAS CITY, MO--Continued

#### WATER-QUALITY RECORDS

PERIOD OF RECORD. -- August 1998 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURE.--August 1998 to current year. pH.--August 1998 to current year. SPECIFIC CONDUCTANCE.--August 1998 to current year. DISSOLVED OXYGEN.--August 1998 to current year. TURBIDITY.--August 1998 to current year.

INSTRUMENTATION.--Water-quality monitor seasonally since August 1998. Electronic data logger with 15 minute recording interval and 4 hour satellite transmission interval. The monitor is not operated during the winter months.

REMARKS.--The number of missing days of record exceeds 20 percent of the year. The monitor was not operated from Dec. 10 to April 4. Unpublished records prior to October 2000 are available in files of the Sub-district office. Interruptions in the record are generally due to malfunction or fouling of the sensors, where possible missing record has been estimated. Daily value estimations were based on partial data, inspection of contiguous data, hydrograph comparison and the best judgment of the hydrographer. Detailed records of the procedures employed for estimating data and/or data shifts for specific periods of record have been included with the station analysis and are kept on file. The manufacturers' specified range for turbidity sensors used is 0 to 1000 NTU. All numbers beyond this limit may be considered as >1000 NTU. Values >1000 NTU are maintained for continuity of the record. Specific Conductance records were rated either good or excellent except for the following period: October 1-3 rated fair. pH records were rated either good or excellent. Water temperature records were rated excellent. Dissolved oxygen records were rated either good or excellent except for the following periods: November 24-December 10 and April 9-18 rated poor; August 11-16 rated poor-estimated. Turbidity records were rated either good or excellent except for the following periods: October 14-19, 22-29 rated poor-estimated

EXTREMES FOR PERIOD OF DAILY RECORD.--(more than 20 percent of record missing)

WATER TEMPERATURE.--Maximum recorded, 32.9 °C, July 27, 29, 1999.
pH.--Maximum recorded, 8.9 standard units, July 12-13, 2000; minimum recorded, 7.0 standard units, May 1, 9, 2000.
SPECIFIC CONDUCTANCE.--Maximum recorded, 1,120 microsiemens per centimeter (μS/cm), Nov. 11, 1999; minimum recorded, 109 μS/cm, June 28, 1999.
DISSOLVED OXYGEN.--Maximum recorded, 16.1 mg/L, Oct. 9, 1998; minimum recorded, 0.3 mg/L, April 21, 2002.
TURBIDITY.--Maximum recorded, 2,700 NTU, May 11-12, 2002; minimum recorded, 0.0 NTU, many days August to November 1998, July to November 1999, and April to September 2000.

EXTREMES FOR CURRENT YEAR.--(more than 20 percent of record missing)
WATER TEMPERATURE.--Maximum, 32.3 °C, August 1.
pH.--Maximum recorded, 8.8 standard units, April 6; minimum recorded, 7.3 standard units, Nov. 15, 17-19, and 24.
SPECIFIC CONDUCTANCE.--Maximum recorded, 1,015 µS/cm, Nov. 14; minimum recorded, 185 µS/cm, May 25.
DISSOLVED OXYGEN.--Maximum recorded, 13.6 mg/L, April 5; minimum recorded, 0.3 mg/L, April 21.
TURBIDITY.--Maximum recorded, 2700 NTU, May 11-12; minimum recorded, 2.0 NTU, Nov. 21.

#### WATER TEMPERATURE, (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	=	N	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	19.1 19.5 20.1 20.1 18.6	16.8 17.1 18.0 18.6 13.8	18.0 18.3 19.1 19.6 14.9	16.0 16.4 16.0 16.3 16.4	14.5 15.0 14.4 15.0 14.7	15.3 15.7 15.1 15.5 15.5	7.3 8.5 10.9 13.6 15.0	6.0 6.4 8.5 10.9 12.4	6.7 7.4 9.5 12.3 13.8	  		  
6 7 8 9 10	14.4 14.6 15.8 17.4 18.9	12.5 12.8 14.1 15.7 17.3	13.6 13.9 15.0 16.5 18.1	16.5 16.8 16.0 13.1 12.4	14.6 15.3 13.1 10.9 10.6	15.6 16.0 14.9 11.8 11.4	12.9 10.9 9.9 7.8	10.9 9.7 7.8 6.5	12.0 10.3 9.0 7.1	  		  
11 12 13 14 15	18.5 17.1 17.1 16.1 15.0	16.9 15.9 15.7 14.6 10.7	17.6 16.3 16.2 15.4 13.0	12.2 12.2 13.7 15.2 16.0	10.6 10.7 12.1 13.5 14.6	11.4 11.5 12.9 14.4 15.2	  	  	  	  		  
16 17 18 19 20	11.4 12.3 13.7 13.8 15.2	9.8 10.1 11.7 12.4 12.8	10.7 11.3 12.6 13.2 14.0	15.9 15.5 15.5 15.1 11.6	14.5 14.3 15.0 11.6 9.4	15.2 15.0 15.3 13.3 10.2	  	  	  	  		  
21 22 23 24 25	17.4 18.4 19.7 19.0 16.4	15.2 17.4 17.9 16.4 13.2	16.2 17.9 18.7 17.9 14.5	9.6 10.7 11.9 14.2 11.2	8.3 9.1 10.2 11.2 10.3	9.1 9.8 11.0 12.2 10.9	  	  	  	  		  
26 27 28 29 30 31	13.2 11.4 12.0 13.3 14.6 14.8	11.4 9.7 10.0 11.6 12.8 13.6	12.1 10.6 11.0 12.4 13.6 14.2	12.2 10.6 7.8 6.3 7.2	10.6 7.8 6.1 5.9 6.3	11.2 9.0 6.8 6.1 6.7	  	   	   	   	   	   
MONTH	20.1	9.7	15.0	16.8	5.9	12.5						

BLUE RIVER BASIN

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## 06893500 BLUE RIVER NEAR KANSAS CITY, MO--Continued

WATER TEMPERATURE, (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	WATER 1							MEAN		MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2										17.9 16.9	16.0 14.5	16.8 15.7
3										17.5	14.4	16.0
4 5							14.1	10.0	12.0	19.3 21.7	15.2 17.2	17.2 19.4
6							14.6	11.5	13.0	20.9	19.1	20.3
7 8							13.6 12.8	12.6 12.2	13.1 12.5	20.5 18.9	18.9 17.5	19.6 18.3
9							15.5	11.1	13.1	18.6	16.7	17.5
10							17.6	12.8	15.1	17.8	15.3	16.5
11							17.5 17.3	15.3 16.0	16.5	18.7 18.7	15.4 15.7	16.5 17.5
12 13							16.7	14.8	16.6 15.9	17.2	14.4	15.8
14							20.0	15.3	17.5	19.0	14.9	16.9
15							23.1	18.8	20.7	20.1	16.8	18.4
16 17							22.2 24.0	21.0 20.7	21.6 22.1	20.3 19.8	18.1 17.2	19.3 18.5
18							24.0	22.3	23.1	18.7	15.7	17.3
19							23.3	18.9	20.4	18.6	16.2	17.5
20							18.9	14.6	17.2	19.1	16.2	17.8
21							15.4	12.7	14.1	19.4	16.8	18.3
22 23							16.9 19.4	13.0 15.6	14.9 17.5	20.7 20.3	17.9 19.1	19.3 19.6
24							19.3	17.4	18.6	19.2	16.9	18.6
25							17.8	15.1	16.6	17.5	15.9	16.6
26							17.0	15.3	16.0	20.0	16.2	17.9
27 28							15.3 16.4	12.8 13.5	13.9 14.8	21.1 22.5	18.4 19.6	19.6 21.0
29							17.8	14.2	15.9	23.8	20.5	22.2
30 31							18.5	16.1	17.3	25.1 26.5	22.0 23.6	23.6 25.1
MONTH										26.5	14.4	18.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN AUGUST	MEAN	MAX	MIN SEPTEMB	
DAY 1	MAX 27.6		MEAN 26.2	MAX 29.4		MEAN			MEAN	MAX 27.8		
1 2	27.6 28.7	JUNE 24.9 25.6	26.2 27.0	29.4 27.8	JULY 27.4 26.6	28.3 27.2	32.3 31.1	AUGUST 28.9 28.4	30.5 29.8	27.8 28.5	SEPTEMB: 25.1 25.7	ER 26.3 26.9
1 2 3	27.6 28.7 29.1	JUNE 24.9 25.6 26.0	26.2 27.0 27.4	29.4 27.8 28.7	JULY 27.4 26.6 26.1	28.3 27.2 27.2	32.3 31.1 31.5	AUGUST 28.9 28.4 28.4	30.5 29.8 29.9	27.8 28.5 28.2	25.1 25.7 26.0	26.3 26.9 27.0
1 2	27.6 28.7	JUNE 24.9 25.6	26.2 27.0	29.4 27.8	JULY 27.4 26.6	28.3 27.2	32.3 31.1	AUGUST 28.9 28.4	30.5 29.8	27.8 28.5	SEPTEMB: 25.1 25.7	ER 26.3 26.9
1 2 3 4	27.6 28.7 29.1 27.6	JUNE 24.9 25.6 26.0 23.3	26.2 27.0 27.4 26.1	29.4 27.8 28.7 28.0	JULY 27.4 26.6 26.1 26.2	28.3 27.2 27.2 27.1	32.3 31.1 31.5 31.2	28.9 28.4 28.4 29.1	30.5 29.8 29.9 30.2	27.8 28.5 28.2 28.2	25.1 25.7 26.0 25.4	26.3 26.9 27.0 26.7 27.2
1 2 3 4 5	27.6 28.7 29.1 27.6 23.7 25.1 26.5	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3	26.2 27.0 27.4 26.1 23.1 23.2 24.3	29.4 27.8 28.7 28.0 28.8 30.7 30.9	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4	28.3 27.2 27.2 27.1 26.8 28.8 29.6	32.3 31.1 31.5 31.2 31.4	AUGUST  28.9 28.4 28.4 29.1 28.9 28.2 26.8	30.5 29.8 29.9 30.2 30.1 29.3 28.0	27.8 28.5 28.2 28.2 28.5 29.0 28.6	25.1 25.7 26.0 25.4 26.0	26.3 26.9 27.0 26.7 27.2
1 2 3 4 5 6 7 8	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3 23.8	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3	JULY 27.4 26.6 26.1 26.2 24.9 27.2 28.4 26.6	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5	AUGUST  28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7	25.1 25.7 26.0 25.4 26.0 26.4 26.0 26.3	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4
1 2 3 4 5	27.6 28.7 29.1 27.6 23.7 25.1 26.5	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3	26.2 27.0 27.4 26.1 23.1 23.2 24.3	29.4 27.8 28.7 28.0 28.8 30.7 30.9	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4	28.3 27.2 27.2 27.1 26.8 28.8 29.6	32.3 31.1 31.5 31.2 31.4	AUGUST  28.9 28.4 28.4 29.1 28.9 28.2 26.8	30.5 29.8 29.9 30.2 30.1 29.3 28.0	27.8 28.5 28.2 28.2 28.5 29.0 28.6	25.1 25.7 26.0 25.4 26.0	26.3 26.9 27.0 26.7 27.2
1 2 3 4 5 6 7 8 9	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3 23.8 23.6	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2	25.1 25.7 26.0 25.4 26.0 26.4 26.0 26.3 25.7	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2
1 2 3 4 5 6 7 8 9 10	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3 23.8 23.6 23.0 24.1 23.1	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 24.9	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7	AUGUST  28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.4 25.3  25.1 25.4	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2	25.1 25.7 26.0 25.4 26.0 26.4 26.0 26.3 25.7 25.2	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2
1 2 3 4 5 6 7 8 9 10	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.8	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3 23.8 23.6 23.0 24.1 23.7	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5 25.9 24.9	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.4	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4 25.3	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2	25.1 25.7 26.0 25.4 26.0 26.3 25.7 25.7 25.2 24.0 22.6 22.3	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.9 26.9 23.5 23.2
1 2 3 4 5 6 7 8 9 10	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3 23.8 23.6 23.0 24.1 23.1	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 24.9	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4 25.3 25.1 25.4 22.2	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2	25.1 25.7 26.0 25.4 26.0 26.4 26.0 26.3 25.7 25.2	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.8 23.7 24.7	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3 23.8 23.6 23.0 24.1 23.7 21.7 21.6	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 22.9 23.1	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7 28.9 27.1 27.2 28.3 28.9	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5 25.9 24.9 25.3 24.4 25.1	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.4 26.3 26.9	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 26.9 26.1 24.9 25.7	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4 25.3 25.1 25.4 22.2 21.4 23.0	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.1 24.4	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 27.2 27.2 25.9 24.4 24.2 23.5 23.1	25.1 25.7 26.0 25.4 26.0 26.3 25.7 25.2 24.0 22.6 22.3 22.8 21.7	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.2 24.9 23.5 23.1 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.8 23.7 24.7 25.5	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3 23.8 23.6 23.0 24.1 23.7 21.6 22.1 22.2	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 22.9 23.1	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7 28.9 27.1 27.2 28.3 28.9	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 24.9 25.3 24.4 25.1	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.4 26.3 26.9 27.7 28.6	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 26.9 26.1 24.9 25.7	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4 25.3 25.1 25.4 22.2 21.4 23.0 25.1 24.6	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.1 24.4	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2 25.9 24.4 24.2 23.5 23.1	25.1 25.7 26.0 25.4 26.0 26.4 26.0 26.3 25.7 25.2 24.0 22.6 22.3 22.8 21.7	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2 24.9 23.5 23.1 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.8 23.7 24.7 25.5 25.9 25.0	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3 23.8 23.6 23.0 24.1 23.7 21.7 21.6 22.1 22.2 23.5	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 22.9 23.1 23.7 24.0 24.2	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7 28.9 27.1 27.2 28.3 28.9	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5 25.9 24.9 25.3 24.4 25.1 26.7 27.7	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.4 26.3 26.9 27.7 28.6 29.3	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 26.9 26.1 24.9 25.7	28.9 28.4 28.4 29.1 28.9 26.8 25.6 25.4 25.3 25.1 22.2 21.4 23.0 25.1 24.6 23.5	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.1 24.4	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 27.2 25.9 24.4 24.2 23.5 23.1	25.1 25.7 26.0 25.4 26.0 26.3 25.7 25.2 24.0 22.6 22.3 22.8 21.7	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2 24.9 23.5 23.2 23.1 22.5 22.1 22.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.8 23.7 24.7 25.5	JUNE 24.9 25.6 26.0 23.3 22.5 21.4 22.3 23.8 23.6 23.0 24.1 23.7 21.6 22.1 22.2	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 22.9 23.1	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7 28.9 27.1 27.2 28.3 28.9	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 24.9 25.3 24.4 25.1	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.4 26.3 26.9 27.7 28.6	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 26.9 26.1 24.9 25.7	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4 25.3 25.1 25.4 22.2 21.4 23.0 25.1 24.6	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.1 24.4	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2 25.9 24.4 24.2 23.5 23.1	25.1 25.7 26.0 25.4 26.0 26.4 26.0 26.3 25.7 25.2 24.0 22.6 22.3 22.8 21.7	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2 24.9 23.5 23.1 22.5
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.8 23.7 24.7 25.5 25.0 26.8 29.7 30.4 30.3 29.8 30.9	JUNE  24.9 25.6 26.0 23.3 22.5  21.4 22.3 23.8 23.6 23.0  24.1 23.7 21.7 21.6  22.1 22.2 23.5 23.1 24.9  26.9 27.0 26.9 27.0	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 22.9 23.1 23.7 24.0 24.2 24.9 23.1	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7 28.9 27.1 27.2 28.3 28.9 29.5 30.8 31.3 31.7 29.8 31.0 30.0 29.4 29.8 30.6	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 25.3 24.9 25.3 24.4 25.1 26.1 26.7 27.4 26.2 25.8 27.6 28.9 26.3 26.9	28.3 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.4 26.3 26.9 27.7 28.6 29.3 28.7 27.7 29.4 28.8	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 26.9 26.1 24.9 25.7 27.6 26.9 26.0 26.3 27.2 27.9 29.1 29.0 28.2 27.7	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4 22.2 21.4 23.0 25.1 24.6 23.5 24.6 24.3 26.3 27.1 26.3 24.9	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.6 23.1 24.4 26.2 25.6 24.7 25.5 25.7	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2 25.9 24.4 24.2 23.5 23.1 23.2 23.8 25.0 24.4 22.5	25.1 25.7 26.0 25.4 26.0 26.3 25.7 25.2 24.0 22.6 22.3 22.8 21.7 20.8 22.7 21.6 20.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.7 21.7 21.7 21.7 21.7 21.7 21.7	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2 24.9 23.5 23.2 23.1 22.5 22.1 22.1 22.7 21.5 21.2 20.5 19.1 18.9 19.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.7 25.5 23.7 24.7 25.5 25.0 26.0 26.1 24.9 25.4 25.1 24.9 25.4 25.1 24.7 25.5 27.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	JUNE  24.9 25.6 26.0 23.3 22.5  21.4 22.3 23.6 23.0  24.1 23.1 23.7 21.6  22.1 22.2 23.5 23.1 24.9  26.4 27.0 26.9 27.0 25.8 24.0	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 24.2 24.2 24.2 24.2 24.2	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.7 28.9 27.1 27.2 28.3 28.9 29.5 30.8 31.3 31.7 29.8 31.0 30.0 29.4 29.4 30.6	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 24.9 25.3 24.4 25.1  26.7 27.4 26.6 26.9 26.3 26.9 26.3 26.9 28.6	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.4 26.3 26.9 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 30.0	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 26.9 26.9 26.9 26.0 26.3 27.2 27.9 29.1 29.0 28.2 27.7	28.9 28.4 29.1 28.9 28.2 26.8 25.6 25.4 25.3 25.1 25.4 22.2 21.4 23.0 25.1 24.6 23.5 24.6 23.5 24.9 26.3 27.1 26.3 27.1 26.3 27.1 26.3 27.1 26.3 27.1	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.1 24.4 26.2 25.6 24.7 25.5 25.7 27.0 27.6 28.1 27.0 26.2 27.0 26.2 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2 25.9 24.4 24.2 23.5 23.1 23.2 23.8 25.0 24.4 22.5 22.5 21.3 20.1 19.0 20.6	25.1 25.7 26.0 25.4 26.0 26.4 26.3 25.7 25.2 24.0 22.6 22.3 22.7 21.6 20.6 19.9 19.6 18.0 17.8 18.1	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2 24.9 23.5 23.1 22.5 23.1 22.5 23.1 22.5 23.1 22.5 23.1 21.5 21.2 20.5 19.1 19.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.8 23.7 24.7 25.5 25.0 26.8 29.7 30.4 30.3 29.8 30.9	JUNE  24.9 25.6 26.0 23.3 22.5  21.4 22.3 23.8 23.6 23.0  24.1 23.7 21.6  22.1 22.2 23.5 23.1 24.9 26.4 27.0 26.9 27.0 25.8 24.0 26.0	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 24.2 24.2 24.2 24.2 24.3 23.1	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.3 31.9 30.7 28.9 27.1 27.2 28.3 28.9 29.5 30.8 31.3 31.7 29.8 31.0 30.0 29.4 29.8 30.6	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 24.9 25.3 24.4 25.1 26.1 26.7 27.4 26.2 25.8 27.6 28.6 28.6 27.6 28.6 28.6 29.2 25.8	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.4 26.3 26.9 27.7 28.6 29.3 28.7 27.7 29.2 29.4 28.1 28.0 28.6	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 26.9 26.1 24.9 25.7 27.6 26.9 26.3 27.2 27.9 29.1 29.0 28.2 27.7	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4 25.3 25.1 25.4 22.2 21.4 23.0 25.1 24.6 23.5 24.6 24.3 26.3 27.1 26.3 24.9 25.6 25.6	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.1 24.4 26.2 25.6 24.7 25.5 25.7 27.0 27.6 28.1 27.0 26.2 27.0 27.6 28.1 27.0 27.6 28.1 27.0 27.6 28.1 27.0 27.6 28.1 27.0 27.6 28.1 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 22.7 22.5 23.5 23.1 23.2 23.8 25.0 24.4 22.5 22.5 21.3 20.1 19.9 20.6	25.1 25.7 26.0 25.4 26.0 26.4 26.0 26.3 25.7 25.2 24.0 22.6 22.3 22.8 21.7 20.8 22.7 21.6 20.6 20.1 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.7 21.6 21.6 21.7 21.7 21.6 21.7 21.7 21.6 21.7 21.7 21.7 21.7 21.7 21.7 21.7 21.7	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2 23.5 23.1 22.5 23.7 22.5 22.1 12.2 23.7 21.5 21.2 20.5 19.1 18.9 19.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 20 21 22 23 24 25 26 27 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.7 25.5 25.9 25.0 26.8 23.7 24.7 25.5 25.0 26.8 28.6 29.7 30.4 30.3 29.8 30.9	JUNE  24.9 25.6 26.0 23.3 22.5  21.4 22.3 23.6 23.0  24.1 23.1 23.7 21.6  22.1 22.2 23.5 23.1 24.9  26.4 27.2 27.0 26.9 27.0 26.9 27.0 25.8 24.0 26.0 27.8 28.4	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 24.2 24.2 24.2 24.2 24.2	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.7 28.9 27.1 27.2 28.3 28.9 29.5 30.8 31.3 31.7 29.8 31.0 30.0 29.4 29.5 30.6	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 24.9 25.3 24.4 25.1  26.1 26.7 27.4 26.2 25.8  27.6 28.6 26.9 26.3 26.9 26.3 26.9	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.3 26.9 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 29.4 28.1 28.6 29.5 27.7 29.6 29.7 29.7 29.7 29.7 29.7 29.8 20.9 27.7 28.6 29.3 28.7 29.7 29.7 29.8 20.8	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 24.9 25.7 27.6 26.9 26.0 26.3 27.2 27.9 29.1 29.0 28.2 27.7	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4 25.3 25.1 25.4 22.2 21.4 23.0 25.1 24.6 24.3 26.3 27.1 26.3 27.1 26.3 24.6 25.6 24.3	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.1 24.4 26.2 25.6 24.7 25.5 25.7 27.0 27.6 28.1 27.0 26.2 28.1 27.0 26.2 28.1 27.0 27.0 27.0 28.0 28.0 28.0 28.0 28.0 28.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2 25.9 24.4 24.2 23.5 23.1 23.2 23.8 25.0 24.4 22.5 22.5 21.3 20.1 19.9 20.6 21.2 21.2 21.2 23.1 23.8	25.1 25.7 26.0 25.4 26.0 26.3 25.7 25.2 24.0 22.6 22.3 22.7 25.2 24.0 22.6 22.3 22.8 21.7 20.8 22.0 22.7 21.6 20.6 19.9 19.6 18.0 17.0 19.6 18.1	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2 24.9 23.5 23.1 22.5 23.1 22.5 23.1 22.5 23.1 22.5 23.1 22.5 23.7 22.8 23.7 21.5 21.2 20.5 19.1 18.9 19.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.8 23.7 24.7 25.5 25.9 26.8 28.6 29.7 30.4 30.9 31.3 29.8 30.9	JUNE  24.9 25.6 26.0 23.3 22.5  21.4 22.3 23.8 23.6 23.0  24.1 23.1 23.7 21.7 21.6  22.1 22.2 23.5 23.1 24.9  26.4 27.2 27.0 26.9 27.0 25.8 24.0 26.0 27.8	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 22.9 23.1 23.7 24.0 24.2 24.9 26.6 28.7 28.7 28.8 28.8	29.4 27.8 28.0 28.8 30.7 30.9 30.7 28.9 27.1 27.2 28.3 28.9 29.5 30.8 31.7 29.8 31.0 30.0 30.0 31.9 30.6	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 24.9 25.3 24.4 25.1  26.1 26.7 27.4 26.2 25.8  27.6 28.6 26.9 28.6 26.9	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.4 26.3 26.9 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 26.9 26.1 24.9 25.7 27.6 26.9 26.3 27.2 27.9 29.1 29.1 29.1 29.7 27.5 27.5 27.5	28.9 28.4 29.1 28.9 28.2 26.8 25.4 25.3 25.1 25.4 22.2 21.4 23.0 25.1 24.6 24.3 26.2 26.3 27.1 26.3 24.9 25.6 25.6 25.6 25.6 25.6 25.6	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.1 24.4 26.2 25.6 24.7 25.5 25.7 27.0 27.6 28.1 27.0 26.2 26.2 27.0 27.6 28.1 27.0 26.2 26.5 26.5	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2 25.9 24.4 24.2 23.5 23.1 23.2 23.8 25.0 24.4 22.5 21.3 20.1 19.9 20.6 21.2 21.2 21.6 23.1	25.1 25.7 26.0 25.4 26.0 26.3 25.7 25.2 24.0 22.6 22.3 22.8 21.7 20.8 22.0 22.6 21.6 20.6 19.9 19.6 18.0 17.8 18.1	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2 24.9 23.5 23.2 23.1 22.5 22.1 22.8 23.7 21.5 21.2 20.5 19.8 20.1 20.1 20.1 20.1 20.1 20.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 20 21 22 23 24 25 26 27 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	27.6 28.7 29.1 27.6 23.7 25.1 26.5 27.0 26.1 24.9 25.4 25.1 24.7 25.5 25.9 25.0 26.8 23.7 24.7 25.5 25.0 26.8 28.6 29.7 30.4 30.3 29.8 30.9	JUNE  24.9 25.6 26.0 23.3 22.5  21.4 22.3 23.6 23.0  24.1 23.1 23.7 21.6  22.1 22.2 23.5 23.1 24.9  26.4 27.2 27.0 26.9 27.0 26.9 27.0 25.8 24.0 26.0 27.8 28.4	26.2 27.0 27.4 26.1 23.1 23.2 24.3 25.4 24.9 23.9 24.8 24.2 24.2 24.2 24.2 24.2 24.2 24.2	29.4 27.8 28.7 28.0 28.8 30.7 30.9 30.7 28.9 27.1 27.2 28.3 28.9 29.5 30.8 31.3 31.7 29.8 31.0 30.0 29.4 29.5 30.6	JULY  27.4 26.6 26.1 26.2 24.9  27.2 28.4 26.6 28.2 28.5  25.9 24.9 25.3 24.4 25.1  26.1 26.7 27.4 26.2 25.8  27.6 28.6 26.9 26.3 26.9 26.3 26.9	28.3 27.2 27.2 27.1 26.8 28.8 29.6 28.7 30.0 29.7 27.7 26.1 26.3 26.9 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 28.6 29.3 28.7 27.7 29.4 28.1 28.6 29.5 27.7 29.6 29.7 29.7 29.7 29.7 29.7 29.8 20.9 27.7 28.6 29.3 28.7 29.7 29.7 29.8 20.8	32.3 31.1 31.5 31.2 31.4 30.5 29.4 28.5 27.8 26.7 28.1 24.9 25.7 27.6 26.9 26.0 26.3 27.2 27.9 29.1 29.0 28.2 27.7	28.9 28.4 28.4 29.1 28.9 28.2 26.8 25.6 25.4 25.3 25.1 25.4 22.2 21.4 23.0 25.1 24.6 24.3 26.3 27.1 26.3 27.1 26.3 24.6 25.6 24.3	30.5 29.8 29.9 30.2 30.1 29.3 28.0 27.1 26.6 26.1 26.3 26.2 23.6 23.1 24.4 26.2 25.6 24.7 25.5 25.7 27.0 27.6 28.1 27.0 26.2 28.1 27.0 26.2 28.1 27.0 27.0 27.0 28.0 28.0 28.0 28.0 28.0 28.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29	27.8 28.5 28.2 28.2 28.5 29.0 28.6 28.7 28.2 27.2 25.9 24.4 24.2 23.5 23.1 23.2 23.8 25.0 24.4 22.5 22.5 21.3 20.1 19.9 20.6 21.2 21.2 21.2 23.1 23.8	25.1 25.7 26.0 25.4 26.0 26.3 25.7 25.2 24.0 22.6 22.3 22.7 25.2 24.0 22.6 22.3 22.8 21.7 20.8 22.0 22.7 21.6 20.6 19.9 19.6 18.0 17.0 19.6 18.1	26.3 26.9 27.0 26.7 27.2 27.6 27.3 27.4 26.9 26.2 24.9 23.5 23.2 23.1 22.5 22.1 22.8 23.7 21.5 21.2 20.5 19.8 20.1 20.1 20.1 20.1 20.1 20.1

## 06893500 BLUE RIVER NEAR KANSAS CITY, MO--Continued

pH, WH, FIELD, (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		pH, WH,	FIELD,	(STANDARD	UNITS),	WATER YEA	AR OCTOBER	2001 TC	) SEPTEMBE	IR 2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		Di	ECEMBER			JANUARY	
1	7.8	7.6	7.7	7.8	7.6	7.7	7.7	7.6	7.6			
2	7.7	7.6	7.7	7.7	7.6	7.6	7.7	7.6	7.6			
3 4	8.0 7.9	7.7 7.8	7.8 7.9	7.7 7.6	7.6 7.5	7.6	7.6 7.6	7.5 7.6	7.6 7.6			
5	7.9	7.8	7.9	7.6	7.5	7.6 7.6	7.7	7.6	7.6			
					, . 5	,		,.0	,			
6	7.9	7.8	7.8	7.7	7.5	7.6	7.8	7.6	7.7			
7 8	7.9 7.9	7.8 7.9	7.8 7.9	7.6 7.6	7.5 7.5	7.5 7.5	7.8 7.7	7.7 7.7	7.7 7.7			
9	8.0	7.9	7.9	7.7	7.5	7.6	7.8	7.7	7.7			
10	8.0	7.8	7.8	7.6	7.5	7.5						
11 12	7.8 7.8	7.7 7.7	7.7 7.7	7.6 7.6	7.5 7.5	7.6 7.6						
13	7.8	7.7	7.8	7.6	7.3	7.5						
14	7.8	7.8	7.8	7.6	7.4	7.5						
15	8.0	7.7	7.8	7.6	7.3	7.5						
16	8.0	7.8	7.9	7.5	7.4	7.4						
17	8.0	7.9	8.0	7.4	7.3	7.4						
18	8.0	8.0	8.0	7.4	7.3	7.4						
19	8.0 7.9	7.9 7.8	7.9	7.5	7.3	$7.4 \\ 7.7$						
20	7.9	7.8	7.8	7.8	7.5	7.7						
21	7.8	7.7	7.8	7.9	7.6	7.8						
22	7.8	7.7	7.7	7.8	7.6	7.7						
23 24	7.7 7.7	7.6 7.6	7.6 7.6	7.7 7.7	7.6 7.3	7.7 7.6						
25	7.7	7.6	7.7	7.7	7.5	7.6						
26	7.9	7.7	7.8	7.6	7.5	7.5						
27 28	7.9 7.9	7.8 7.8	7.8 7.8	7.6 7.6	7.5 7.6	7.6 7.6						
29	7.9	7.7	7.8	7.6	7.4	7.6						
30	7.9	7.7	7.8	7.6	7.4	7.5						
31	7.9	7.7	7.8									
MONTH	8.0	7.6	7.8	7.9	7.3	7.6						
11011111	0.0	7.0	7.0	7.5	7.5	7.0						
DAY	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		MIN FEBRUARY		MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
DAY 1				MAX		MEAN	MAX		MEAN	MAX 8.0		MEAN
1 2		FEBRUARY			MARCH			APRIL		8.0 8.0	MAY	7.9 8.0
1 2 3		FEBRUARY  		 	MARCH	 		APRIL		8.0 8.0 8.1	MAY 7.9 7.9 8.0	7.9 8.0 8.0
1 2 3 4		FEBRUARY			MARCH	  	  	APRIL	  	8.0 8.0 8.1 8.1	MAY 7.9 7.9 8.0 8.0	7.9 8.0 8.0 8.1
1 2 3		FEBRUARY   	  	  	MARCH	 		APRIL		8.0 8.0 8.1	MAY 7.9 7.9 8.0	7.9 8.0 8.0 8.1
1 2 3 4 5		FEBRUARY		  	MARCH	  	   8.7 8.8	APRIL 8.5 8.5	   8.6	8.0 8.0 8.1 8.1 8.2	MAY 7.9 7.9 8.0 8.0 8.1 7.7	7.9 8.0 8.0 8.1 8.1
1 2 3 4 5	====	FEBRUARY	====	   	MARCH	    	  8.7 8.8 8.6	APRIL 8.5 8.5 8.2	   8.6 8.7 8.5	8.0 8.0 8.1 8.1 8.2 8.1	MAY 7.9 7.9 8.0 8.0 8.1 7.7 7.7	7.9 8.0 8.0 8.1 8.1 7.9 7.9
1 2 3 4 5		FEBRUARY		  	MARCH	   	  8.7 8.8 8.6 8.2	APRIL 8.5 8.5 8.2 7.8	  8.6 8.7 8.5 8.0	8.0 8.0 8.1 8.1 8.2 8.1 8.0	MAY 7.9 7.9 8.0 8.0 8.1 7.7 7.7	7.9 8.0 8.0 8.1 8.1 7.9 7.9 8.0
1 2 3 4 5		FEBRUARY	=======================================	====	MARCH	    	  8.7 8.8 8.6	APRIL 8.5 8.5 8.2	   8.6 8.7 8.5	8.0 8.0 8.1 8.1 8.2 8.1	MAY 7.9 7.9 8.0 8.0 8.1 7.7 7.7	7.9 8.0 8.0 8.1 8.1 7.9 7.9
1 2 3 4 5 6 7 8 9		FEBRUARY	    		MARCH		8.7 8.8 8.6 8.2 8.1	APRIL 8.5 8.5 8.5 8.2 7.8 7.8 7.9	  8.6 8.7 8.5 8.0 8.0	8.0 8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0	7.9 7.9 8.0 8.0 8.1 7.7 7.7 7.9 8.0	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.9
1 2 3 4 5 6 7 8 9 10		FEBRUARY		   	MARCH	    	8.7 8.8 8.6 8.2 8.1 8.3	APRIL 8.5 8.5 8.5 8.7.8 7.8 7.9	  8.6 8.7 8.5 8.0 8.0 8.1	8.0 8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.0 8.1 7.7 7.7 7.9 7.7 8.0 7.7	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.9 8.0
1 2 3 4 5 6 7 8 9 10		FEBRUARY	    		MARCH		  8.7 8.8 8.6 8.2 8.1 8.3	APRIL 8.5 8.5 8.5 8.7 8.7 7.9 7.9	  8.6 8.7 8.5 8.0 8.1	8.0 8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.1	MAY 7.9 7.9 8.0 8.0 8.1 7.7 7.7 8.0 7.7 8.0	7.9 8.0 8.0 8.1 8.1 7.9 7.9 8.0 7.9 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY			MARCH		8.8 8.6 8.2 8.1 8.3 8.1 8.1 8.2 8.2	APRIL 8.5 8.5 8.5 8.7.8 7.9 7.9 7.9 8.0	  8.6 8.7 8.5 8.0 8.0 8.1	8.0 8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1	MAY 7.9 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 7.9 7.7 8.0 7.7 7.9 7.7 8.0	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.9 8.0
1 2 3 4 5 6 7 8 9 10		FEBRUARY			MARCH		  8.7 8.8 8.6 8.2 8.1 8.3	APRIL 8.5 8.5 8.2 7.8 7.9 7.9	  8.6 8.7 8.5 8.0 8.0 8.1	8.0 8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.9 7.7 7.9 7.7 8.0	7.9 8.0 8.0 8.1 8.1 7.9 8.0 7.9 8.0 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2	APRIL 8.5 8.5 8.5 8.7.8 7.9 7.9 7.9 8.0 8.0	  8.6 8.7 8.5 8.0 8.1 8.0 8.0 8.1 8.0 8.1	8.0 8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.0 8.1 8.0 7.8 7.9 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.9 8.0 7.7 7.9 7.9 7.6 7.8 7.9 7.9	7.9 8.0 8.0 8.1 8.1 7.9 8.0 7.9 8.0 7.7 7.8 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY			MARCH		8.8 8.6 8.2 8.1 8.3 8.1 8.1 8.2 8.2	APRIL 8.5 8.5 8.5 8.7.8 7.9 7.9 7.9 8.0	  8.6 8.7 8.5 8.0 8.0 8.1	8.0 8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1	MAY 7.9 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 7.9 7.7 8.0 7.7 7.9 7.7 8.0	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.9 8.0
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2 8.2 8.2	APRIL 8.5 8.5 8.5 8.2 7.8 7.9 7.9 7.9 8.0 8.0 8.0 7.9	  8.6 8.7 8.5 8.0 8.1 8.0 8.0 8.1 8.1 8.1 8.1	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0 7.8 7.9 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.9 8.0 7.6 7.8 7.9 7.9 8.0 8.1	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.7 7.8 7.8 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.1 8.2 8.2 8.2 8.2 8.2	APRIL 8.5 8.5 8.5 8.7.8 7.9 7.9 7.9 8.0 8.0 8.0 7.9 7.7	  8.6 8.7 8.5 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0 7.8 7.9 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 7.9 7.7 8.0 7.7 7.6 7.8 7.9 7.9 7.9 7.9 7.9	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.0
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2 8.2 8.2	APRIL 8.5 8.5 8.5 8.2 7.8 7.9 7.9 7.9 8.0 8.0 8.0 7.9	  8.6 8.7 8.5 8.0 8.1 8.0 8.0 8.1 8.1 8.1 8.1	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0 7.8 7.9 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.9 8.0 7.6 7.8 7.9 7.9 8.0 8.1	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.7 7.8 7.8 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3	APRIL 8.5 8.5 8.5 8.7.8 7.9 7.9 7.9 8.0 8.0 8.0 7.9 7.7 7.7	  8.6 8.7 8.5 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.7 7.7	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.1 8.1 8.0 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 7.6 7.8 7.9 7.9 7.9 8.0 8.0 8.0 8.0	7.9 8.0 8.1 8.1 7.9 8.0 7.9 8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2 8.2 8.2 8.2 8.2	APRIL 8.5 8.5 8.5 8.2 7.8 7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.7	  8.6 8.7 8.5 8.0 8.1 8.0 8.0 8.1 8.1 8.1 8.0 8.7 7.7	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 8.0 7.7 9.9 8.0 8.0 8.0 8.0 8.0 8.0	7.9 8.0 8.1 8.1 7.9 7.9 8.0 8.0 7.7 7.8 7.9 8.0 8.0 8.0 8.0 8.0 8.0
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY			MARCH		8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2 8.2 8.2 8.2 8.7 8.9 7.8	APRIL 8.5 8.5 8.5 8.2 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.7	  8.6 8.7 8.5 8.0 8.1 8.0 8.0 8.1 8.1 8.1 8.0 8.7 7.8 7.7	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.7 7.9 8.0 7.6 7.8 7.9 7.9 8.0 8.0 8.0 7.9	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.7 7.8 7.8 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2 8.2 8.2 8.2 8.2	APRIL 8.5 8.5 8.5 8.2 7.8 7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.7	  8.6 8.7 8.5 8.0 8.1 8.0 8.0 8.1 8.1 8.1 8.0 8.7 7.7	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 8.0 7.7 9.9 8.0 8.0 8.0 8.0 8.0 8.0	7.9 8.0 8.1 8.1 7.9 8.0 7.9 8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2 8.2 8.2 8.2 8.1 8.0 7.8	APRIL 8.5 8.5 8.5 8.2 7.8 7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.7 7.7 7.7	  8.6 8.7 8.5 8.0 8.1 8.0 8.0 8.1 8.1 8.1 8.0 8.0 7.8 7.7 7.8 7.9 7.9 7.9	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.9 7.7 8.0 7.6 7.8 7.9 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.7 7.8 7.8 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.0 7.8 8.0 7.9 8.0 8.0	APRIL 8.5 8.5 8.5 8.7.8 7.9 7.9 7.9 7.9 8.0 8.0 8.0 7.9 7.7 7.7 7.7 7.7 7.9 7.9 7.9 7.9 7.9	  8.6 8.7 8.5 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.0 7.7 7.8 7.9 7.9 7.9 8.0	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 7.6 7.8 0 7.9 7.9 8.0 8.0 8.0 8.0 7.9 8.0 8.0 7.9 7.8 7.8	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.0 7.8	APRIL 8.5 8.5 8.5 8.7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.7 7.7 7.7	  8.6 8.7 8.5 8.0 8.1 8.0 8.0 8.1 8.1 8.0 8.0 8.1 7.7 7.8 7.9 7.9 7.9 8.0	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 8.0 7.7 9.9 8.0 8.0 8.0 7.9 7.9 8.0 8.0 8.0 7.7 7.8 8.0	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2 8.2 8.2 8.2 8.0 7.8 8.0 7.9 8.0 8.0 8.0	APRIL 8.5 8.5 8.5 8.7.8 7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.7 7.7 7.7	  8.6 8.7 8.5 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.0 7.8 7.7 7.8 7.9 7.9 7.9 8.0	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 7.6 7.8 8.0 7.7 7.6 8.0 7.7 7.8 8.0 7.9 7.9 8.0 8.0 7.9 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	7.9 8.0 8.1 8.1 7.9 8.0 7.9 8.0 8.0 7.7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		FEBRUARY			MARCH		8.8 8.6 8.2 8.1 8.3 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.0 7.8 8.0 7.9 8.0 8.0 7.9 8.0 8.0 7.9	APRIL 8.5 8.5 8.5 8.7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.7 7.7 7.7	  8.6 8.7 8.5 8.0 8.1 8.0 8.1 8.1 8.0 8.1 8.1 8.0 7.7 7.8 7.9 7.9 7.9 8.0 7.9	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.90 8.0 8.1 7.7 7.7 8.0 7.7 8.0 7.7 8.0 7.7 8.0 8.0 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		FEBRUARY			MARCH		8.7 8.8 8.6 8.2 8.1 8.3 8.1 8.2 8.2 8.2 8.2 8.2 8.0 7.8 8.0 7.9 8.0 8.0 8.0	APRIL 8.5 8.5 8.5 8.7.8 7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.7 7.7 7.7	  8.6 8.7 8.5 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.0 7.8 7.7 7.8 7.9 7.9 7.9 8.0	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.9 8.0 8.1 7.7 7.7 8.0 7.7 7.6 7.8 8.0 7.7 7.6 8.0 7.7 7.8 8.0 7.9 7.9 8.0 8.0 7.9 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	7.9 8.0 8.1 8.1 7.9 8.0 7.9 8.0 8.0 7.7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		FEBRUARY			MARCH		8.8 8.6 8.2 8.1 8.3 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.0 7.8 8.0 7.9 8.0 8.0 7.9 8.0 8.0 7.9	APRIL 8.5 8.5 8.5 8.7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.7 7.7 7.7	  8.6 8.7 8.5 8.0 8.1 8.0 8.1 8.1 8.0 8.1 8.1 8.0 7.7 7.8 7.9 7.9 7.9 8.0 7.9	8.0 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAY 7.9 7.90 8.0 8.1 7.7 7.7 8.0 7.7 8.0 7.7 8.0 7.7 8.0 8.0 8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9	7.9 8.0 8.1 8.1 7.9 7.9 8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8

MAX

MIN

MEAN

113

MAX MIN

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MEAN

## 06893500 BLUE RIVER NEAR KANSAS CITY, MO--Continued

pH, WH, FIELD, (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 MEAN

MIN

DAY

MONTH

990

277

761

1015

404

916

MAX

MIN MEAN

MAX

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	8.1	8.0	8.1	8.1	7.8	7.9	8.0	7.7	7.8	7.7	7.5	7.6
2	8.2	8.0	8.1	8.1	7.9	8.0	8.1	7.8	7.9	7.6	7.4	7.5
3 4	8.3 8.2	8.1 7.7	8.2 8.1	8.2 8.0	7.9 7.7	8.0 7.9	8.2 8.0	7.9 7.8	8.0 7.9	7.6 7.6	7.4 7.4	7.5 7.5
5	8.0	7.6	7.8	8.0	7.7	7.8	8.0	7.8	7.9	7.6	7.4	7.5
_	0 1	7.0	0.0	0 1	7.0	7.0	7.0		7.0		7.4	
6 7	8.1 8.2	7.9 7.9	8.0 8.0	8.1 8.1	7.8 7.8	7.9 7.9	7.8 7.9	7.7 7.6	7.8 7.7	7.7 7.7	7.4 7.5	7.5 7.6
8	8.2	7.9	8.1	8.0	7.6	7.7	7.9	7.6	7.7	7.6	7.5	7.5
9	8.1	7.8	8.0	7.9	7.6	7.7	7.9	7.7	7.8	7.8	7.5	7.6
10	8.0	7.8	7.9	7.9	7.7	7.8	7.8	7.6	7.7	7.7	7.5	7.6
11	7.9	7.6	7.9	7.9	7.7	7.8	7.8	7.6	7.6	7.7	7.5	7.6
12 13	7.8 7.8	7.6 7.7	7.7 7.8	7.8 7.9	7.6 7.6	7.7 7.8	7.8 7.8	7.5 7.6	7.6 7.7	7.7 7.7	7.5 7.6	7.6 7.6
14	7.9	7.8	7.9	8.0	7.8	7.9	7.7	7.6	7.6	7.6	7.4	7.5
15	8.0	7.9	8.0	8.1	7.8	8.0	7.8	7.7	7.7	7.6	7.4	7.5
16	8.1	8.0	8.0	8.2	7.9	8.1	7.7	7.6	7.7	7.6	7.5	7.5
17	8.2	8.0	8.1	8.3	7.9	8.1	7.7	7.6	7.6	7.6	7.5	7.5
18 19	8.2 8.3	8.1 8.1	8.1 8.2	8.3 8.4	7.9 7.7	8.1 8.0	7.7 7.7	7.6 7.6	7.7 7.7	7.7 7.7	7.5 7.6	7.5 7.6
20	8.4	8.2	8.3	7.9	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.6
21	8.3	8.2	8.3	7.7	7.6	7.6	7.8	7.6	7.7	7.6	7.5	7.6
22	8.4	8.2	8.3	7.7	7.7	7.8	7.8	7.6	7.7	7.0	7.5	7.6
23	8.4	8.2	8.3	7.9	7.8	7.8	7.9	7.7	7.7	7.7	7.6	7.6
24 25	8.4 8.4	8.2 8.1	8.3 8.2	8.1 8.2	7.8 8.0	8.0 8.1	7.8 7.8	7.6 7.6	7.7 7.7	7.8 7.8	7.6 7.6	7.7 7.7
26	8.3	7.7	8.2	8.3	8.0	8.1	7.9	7.7	7.7	7.7	7.6	7.7
27 28	7.8 7.9	7.6 7.6	7.7 7.7	8.3 8.2	8.0 7.9	8.1 8.0	7.8 7.9	7.7 7.7	7.7 7.8	7.8 7.9	7.6 7.7	7.7 7.7
29	8.0	7.7	7.8	7.9	7.6	7.7	7.8	7.6	7.7	7.9	7.7	7.8
30 31	8.1	7.8	7.9 	7.8 7.9	7.6 7.7	7.7 7.7	7.8 7.8	7.6 7.6	7.7 7.7	7.8	7.6 	7.7
31				1.5	7.7	/./	7.0	7.0	/./			
MONTH	8.4	7.6	8.0	8.4	7.6	7.9	8.2	7.5	7.7	7.9	7.4	7.6
	0	DEGIETA										
						TATE TO THE T			O CEDERAL	2002		
	٥	PECIFIC	CONDUCTAI	NCE, μS/cm	@ 25°C,	WATER	YEAR OCTOBE	ER 2001 T	O SEPTEME	BER 2002		
DAY	MAX	MIN	CONDUCTAI MEAN	NCE, μS/cm MAX	@ 25°C, MIN	WATER :	YEAR OCTOBE MAX	ER 2001 T MIN	O SEPTEME MEAN	BER 2002 MAX	MIN	MEAN
DAY		MIN	MEAN	MAX	MIN		MAX	MIN				
	MAX	MIN OCTOBER	MEAN	MAX NO	MIN	MEAN	MAX	MIN DECEMBER	MEAN	MAX	JANUARY	
1	MAX 887	MIN OCTOBER 867	MEAN 875	MAX NO	MIN OVEMBER 923	MEAN 945	MAX I 921	MIN DECEMBER 907	MEAN 914			
1 2 3	MAX	MIN OCTOBER	MEAN	MAX NO	MIN	MEAN	MAX I 921 932 939	MIN DECEMBER	MEAN 914 926 930	MAX	JANUARY	
1 2 3 4	MAX 887 919 923 923	MIN OCTOBER 867 887 897 888	MEAN 875 896 912 908	MAX NO 963 941 963 968	MIN OVEMBER 923 908 929 956	MEAN 945 923 953 963	MAX I 921 932 939 927	MIN DECEMBER 907 908 915 915	MEAN 914 926 930 923	MAX	JANUARY   	  
1 2 3	MAX 887 919 923	MIN OCTOBER 867 887 897	MEAN 875 896 912	MAX NO 963 941 963	MIN OVEMBER 923 908 929	MEAN 945 923 953	MAX I 921 932 939	MIN DECEMBER 907 908 915	MEAN 914 926 930	MAX	JANUARY  	 
1 2 3 4 5	887 919 923 923 889 470	MIN OCTOBER 867 887 897 888 277	875 896 912 908 435	MAX NG 963 968 976 977	MIN  OVEMBER  923 908 929 956 956 961	MEAN  945 923 953 963 969	MAX I 921 932 939 927 936	MIN DECEMBER 907 908 915 915 847	914 926 930 923 915	MAX	JANUARY	  
1 2 3 4 5	887 919 923 923 889 470 588	MIN OCTOBER 867 887 897 888 277 393 453	875 896 912 908 435 443 516	MAX NO 963 941 963 968 976 977 985	MIN  OVEMBER  923 908 929 956 956 961 965	945 923 953 963 969 969	MAX I 921 932 939 927 936 938 950	MIN DECEMBER 907 908 915 915 847 878 934	914 926 930 923 915 931 946	MAX	JANUARY	   
1 2 3 4 5	887 919 923 923 889 470	MIN OCTOBER 867 887 897 888 277	875 896 912 908 435	MAX NG 963 968 976 977	MIN  OVEMBER  923 908 929 956 956 961	MEAN  945 923 953 963 969	MAX I 921 932 939 927 936	MIN DECEMBER 907 908 915 915 847	914 926 930 923 915	MAX	JANUARY	   
1 2 3 4 5	MAX 887 919 923 923 889 470 588 699	MIN OCTOBER 867 887 897 888 277 393 453 588	MEAN  875 896 912 908 435  443 516 636	MAX NG 963 941 963 968 976 977 985 977	MIN  OVEMBER  923 908 929 956 956 961 965 962	945 923 953 963 969 969	MAX I 921 932 939 927 936 938 950 984	MIN DECEMBER 907 908 915 915 847 878 934 947	914 926 930 923 915 931 946 970	MAX	JANUARY	
1 2 3 4 5 6 7 8 9	887 919 923 923 889 470 588 699 735	MIN OCTOBER 867 887 897 888 277 393 453 588 699 637	875 896 912 908 435 443 516 636 725 748	963 941 963 968 976 977 985 977	MIN  OVEMBER  923 908 929 956 956 961 965 962 941	945 923 953 963 969 969 976 971	MAX I 921 932 939 927 936 938 950 984 1002	MIN DECEMBER 907 908 915 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10	887 919 923 923 889 470 588 699 735 819	MIN OCTOBER 867 887 897 898 277 393 453 588 699 637 573 580	MEAN  875 896 912 908 435  443 516 636 725 748  632 656	963 941 963 968 976 977 985 977 971 980	MIN  OVEMBER  923 908 929 956 956 961 965 962 941 958 963 974	945 923 953 963 969 969 976 971 957 971	MAX  I 921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 915 847  878 934 947 982	914 926 930 923 915 931 946 970 997	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10	887 919 923 923 889 470 588 699 735 819 701	MIN OCTOBER 867 887 897 888 277 393 453 588 699 637 573 580 714	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748	963 941 963 968 976 977 985 977 971 980 975 996 1006	MIN  OVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 993	945 923 953 963 969 976 971 957 971	MAX I 921 932 939 927 936 938 950 984 1002	MIN DECEMBER 907 908 915 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10	887 919 923 923 889 470 588 699 735 819	MIN OCTOBER 867 887 897 898 277 393 453 588 699 637 573 580	MEAN  875 896 912 908 435  443 516 636 725 748  632 656	963 941 963 968 976 977 985 977 971 980	MIN  OVEMBER  923 908 929 956 956 961 965 962 941 958 963 974	945 923 953 963 969 969 976 971 957 971	921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856	MIN OCTOBER 867 887 897 888 277 393 453 588 699 637 573 580 714 769 281	MEAN  875 896 912 908 435  443 516 636 725 748 632 656 748 802 617	963 941 963 968 976 977 985 977 971 980 975 996 1006 1015	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 993 996 984	945 923 953 969 969 976 971 957 971 970 989 999 1005	921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856	MIN OCTOBER  867 887 897 888 277 393 453 588 699 637 573 580 714 769 281	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748 802 617	963 941 963 968 976 977 985 977 971 980 975 996 1006 1015 1001	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 998	945 923 953 963 969 976 971 957 971 970 989 999 1005 991	MAX  I  921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856	MIN OCTOBER 867 887 897 888 277 393 453 588 699 637 573 580 714 769 281 340 467 590	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748 802 617 387 533 658	963 941 963 968 976 977 985 977 971 980 975 996 1006 1015 1001	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 993 996 984	945 923 953 969 969 976 971 957 971 970 989 999 1005 991	921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785	MIN OCTOBER  867 887 897 888 277 393 453 588 699 637 573 580 714 769 281 340 467 590 688	MEAN  875 896 912 908 435  443 516 636 725 748 632 656 748 802 617 387 533 658 726	963 941 963 968 976 977 985 977 971 980 975 996 1006 1015 1001	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974	945 923 953 963 969 976 971 957 971 970 989 999 1005 991	921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832	MIN OCTOBER 867 887 897 888 277 393 453 588 699 637 573 580 714 769 281 340 467 590 688 785	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748 802 617 387 533 658 726 811	963 941 963 968 976 977 985 977 971 980 975 996 1006 1015 1001	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 993 996 984	945 923 953 969 969 976 971 957 971 970 989 999 1005 991	921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832	MIN OCTOBER  867 887 897 888 277 393 453 588 699 637 573 580 714 769 281 340 467 590 688 785	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748 802 617  387 533 658 726 811	963 941 963 968 976 977 985 977 971 980 975 996 1006 1015 1001 998 994 993 1002 1001	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 993 996 984 982 986 980 974 973	945 923 953 969 976 971 957 971 970 989 999 1005 991 990 987 993	921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	887 919 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832	MIN  OCTOBER  867 887 887 888 277  393 453 588 699 637  573 580 714 769 281  340 467 590 688 785	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748 802 617  387 533 658 726 811	963 941 963 941 963 968 976 977 985 977 971 980 975 996 1006 1015 1001 998 994 993 1002 1001	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958  963 974 993 996 984  982 986 980 974 973	945 923 953 963 969 969 976 971 970 989 999 1005 991 990 989 990 987 993	921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832 864 899 898 901	MIN OCTOBER  867 887 897 888 277 393 453 588 699 637 573 580 714 769 281 340 467 590 688 785 832 859 882 871	MEAN  875 896 912 908 435  443 516 636 725 748 632 656 748 802 617 387 533 658 726 811 850 879 889 881	963 941 963 976 977 985 977 971 980 975 996 1006 1015 1001 988 994 993 1002 1001 982 1010	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 993 996 984  982 986 974 973 961 982 978 404	945 923 953 969 969 976 971 957 971 970 989 999 1005 991 990 987 993 973 1001 994 566	921 932 939 927 936 938 950 984 1002 	MIN DECEMBER  907 908 915 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832 849 898	MIN  OCTOBER  867 887 897 898 8277  393 453 588 699 637  573 580 714 769 281  340 467 590 688 785 832 859 882	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748 802 617  387 533 658 726 811 850 879 889	963 941 963 968 976 977 985 977 971 980 975 996 1006 1015 1001 998 993 1002 1001	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 993 996 984 982 986 974 973	945 923 953 969 969 976 971 957 971 970 989 999 1005 991 990 987 993	921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832 864 899 898 901	MIN OCTOBER  867 887 897 888 277 393 453 588 699 637 573 580 714 769 281 340 467 590 688 785 832 859 882 871	MEAN  875 896 912 908 435  443 516 636 725 748 632 656 748 802 617 387 533 658 726 811 850 879 889 881	963 941 963 976 977 985 977 971 980 975 996 1006 1015 1001 988 994 993 1002 1001 982 1010	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 993 996 984  982 986 974 973 961 982 978 404	945 923 953 969 969 976 971 957 971 970 989 999 1005 991 990 987 993 973 1001 94 566 503	921 932 939 927 936 938 950 984 1002 	MIN DECEMBER  907 908 915 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	887 919 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832 864 899 898 901 902	MIN  OCTOBER  867 887 887 888 277  393 453 588 699 637  573 580 714 769 281  340 467 590 688 785  832 871 881 857 870	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748 802 617  387 533 658 726 811  850 879 889 881 893  874 904	963 941 963 941 963 968 976 977 985 977 971 980 975 996 1006 1015 1001 998 994 993 1002 1001 982 1010 1001 978 533	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958  963 974 993 996 984  980 974 973  961 982 978 404 467	945 923 953 963 969 969 976 971 957 971 970 989 999 990 987 991 990 987 993 614 737	921 932 939 927 936 938 950 984 1002	MIN DECEMBER  907 908 915 915 847  878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	887 919 923 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832 869 898 901 902	MIN  OCTOBER  867 887 897 888 277  393 453 588 699 637  573 580 714 769 281  340 467 590 688 785  832 859 882 871 881	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748 802 617  387 533 658 726 811 850 879 889 881 893  874 904 923	963 941 963 941 963 968 976 977 985 977 971 980 975 996 1006 1015 1001 998 994 993 1002 1001 978 533	MIN  DVEMBER  923 908 929 956 961 965 962 941 958  963 974 993 996 984  982 988 987 981 982 988 987 981 982 988 988 974 973 961	945 923 953 969 969 976 971 957 971 970 989 999 1005 991 990 987 993 973 1001 94 566 503	921 932 939 927 936 938 950 984 1002 	MIN DECEMBER  907 908 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	887 919 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832 864 899 898 901 902 894 913 937 956	MIN  OCTOBER  867 887 887 888 277  393 453 588 699 637  573 580 714 769 281  340 467 590 688 785  832 871 881  857 870 903 914 929	MEAN  875 896 912 908 435  443 516 636 725 748  632 656 748 802 617  387 533 658 726 811  850 879 889 881 893  874 904 923 937 947	963 941 963 941 963 968 976 977 985 977 980 975 996 1006 1015 1001 998 994 993 1002 1001 982 1010 1001 978 533	MIN  DVEMBER  923 908 929 956 961 965 962 941 958  974 993 996 984  980 974 973  961 982 978 404 467  533 684 778 859 894	945 923 953 963 969 969 976 971 970 989 999 1005 991 990 987 993 973 1001 994 565 503 614 737 808 868 869 909	921 932 939 927 936 938 950 984 1002 	MIN DECEMBER  907 908 915 915 847  878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	887 919 923 889 470 588 699 735 819 701 714 769 840 856 467 590 691 785 832 864 898 901 902 894 913 935 947	MIN OCTOBER  867 887 897 888 277 393 453 588 699 637 573 580 714 769 281 340 467 590 688 785 832 859 882 871 881 857 870 903 914	MEAN  875 896 912 908 435  443 516 636 725 748 632 656 748 802 617 387 533 658 726 811 850 879 889 881 893 874 904 923 937	963 941 963 941 963 976 977 985 977 971 980 975 996 1006 1015 1001 988 993 1002 1001 982 1010 1001 978 533 684 780 861 894	MIN  DVEMBER  923 908 929 956 956 961 965 962 941 958 963 974 993 996 984  982 986 974 973 961 982 986 974 973	945 923 953 969 969 976 971 957 971 970 989 999 1005 991 990 987 993 973 1001 94 566 503	921 932 939 927 936 938 950 984 1002 	MIN DECEMBER  907 908 915 847 878 934 947 982	914 926 930 923 915 931 946 970 997 	MAX	JANUARY	

## 06893500 BLUE RIVER NEAR KANSAS CITY, MO--Continued

SPECIFIC CONDUCTANCE,  $\mu \text{S/cm}$  @  $25^{\circ}\text{C}\text{,}$  WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		SPECIFIC	CONDUCTAI	NCE, µS/cı	m @ 25°C,	WATER	YEAR OCT	OBER 2001	TO SEPTEM	IBER 2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1										711	665	688
2										743	698	719
3 4										779 787	739 753	752 774
5							951	882	923	780	753	769
6							925	881	908	865	526	657
7 8							943 988	909 642	931 885	534 493	457 373	482 426
9							642	566	585	414	330	364
10							661	598	634	527	414	472
11							704	661	680	533	276	466
12							704	704	748	362	224	268
13							822	772	796	493	362	439
14							842	822	834	555	491	525
15							871	835	861	587	555	571
16							899	871	888	633	506	568
17							924		915	506	472	491
18							929	917	926	487	446	468
19 20							936 673	599 349	767 567	546 596	487 545	517 572
20							075	317	507	330	313	372
21							462		388	637	596	616
22 23							546 671	462 546	503 615	657 780	635 655	644 679
24							700	669	690	766	307	634
25							735	699	714	390	185	281
0.6							706	725	252	506	200	455
26 27							786 766	735 310	757 528	506 594	389 481	455 525
28							515	351	433	512	481	494
29							612		569	547	505	530
30							666	612	645	590	545	569
31										632	589	602
MONTH										865	185	549
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN	MAX		MEAN			
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN		MIN SEPTEMBE	
1	MAX 635		MEAN 628	MAX 723		MEAN	MAX 651		MEAN 579			R 887
1 2	635 645	JUNE 621 632	628 638	723 765	JULY 652 722	697 751	651 747	AUGUST 529 651	579 703	896 923	SEPTEMBE 871 888	R 887 909
1 2 3	635 645 664	JUNE 621 632 637	628 638 645	723 765 794	JULY 652 722 760	697 751 782	651 747 842	AUGUST 529 651 747	579 703 795	896 923 930	SEPTEMBE 871 888 913	887 909 922
1 2 3 4	635 645 664 822	JUNE 621 632 637 644	628 638 645 673	723 765 794 830	JULY 652 722 760 545	697 751 782 766	651 747 842 878	AUGUST 529 651 747 792	579 703 795 840	896 923 930 929	871 888 913 890	887 909 922 916
1 2 3 4 5	635 645 664 822 674	JUNE 621 632 637 644 485	628 638 645 673 537	723 765 794 830 684	JULY 652 722 760 545 569	697 751 782 766 620	651 747 842 878 886	AUGUST 529 651 747 792 843	579 703 795 840 868	896 923 930 929 909	871 888 913 890 887	887 909 922 916 899
1 2 3 4 5	635 645 664 822 674	JUNE 621 632 637 644 485	628 638 645 673 537	723 765 794 830 684	JULY 652 722 760 545 569 618	697 751 782 766 620	651 747 842 878 886	AUGUST 529 651 747 792 843 883	579 703 795 840 868	896 923 930 929 909	871 888 913 890 887 905	887 909 922 916 899
1 2 3 4 5	635 645 664 822 674 555 579	JUNE 621 632 637 644 485 531 555	628 638 645 673 537 545 562	723 765 794 830 684 731 666	JULY 652 722 760 545 569 618 594	697 751 782 766 620 699 626	651 747 842 878 886 895	AUGUST 529 651 747 792 843 883 887	579 703 795 840 868 889 904	896 923 930 929 909	871 888 913 890 887 905 935	887 909 922 916 899 930 944
1 2 3 4 5	635 645 664 822 674	JUNE 621 632 637 644 485	628 638 645 673 537	723 765 794 830 684	JULY 652 722 760 545 569 618	697 751 782 766 620	651 747 842 878 886	AUGUST 529 651 747 792 843 883	579 703 795 840 868	896 923 930 929 909	871 888 913 890 887 905	887 909 922 916 899
1 2 3 4 5	635 645 664 822 674 555 579 641	JUNE 621 632 637 644 485 531 555 579	628 638 645 673 537 545 562 616	723 765 794 830 684 731 666 794	JULY 652 722 760 545 569 618 594 501	697 751 782 766 620 699 626 602	651 747 842 878 886 895 912 909	AUGUST 529 651 747 792 843 883 887 891	579 703 795 840 868 889 904 899	896 923 930 929 909 942 951 950	871 888 913 890 887 905 935 930	887 909 922 916 899 930 944 940
1 2 3 4 5 6 7 8 9	635 645 664 822 674 555 579 641 662 537	JUNE 621 632 637 644 485 531 555 579 525 519	628 638 645 673 537 545 562 616 636 528	723 765 794 830 684 731 666 794 530	JULY 652 722 760 545 569 618 594 501 463 443	697 751 782 766 620 699 626 602 488 516	651 747 842 878 886 895 912 909 919	AUGUST  529 651 747 792 843 883 887 891 902 909	579 703 795 840 868 889 904 899 909	896 923 930 929 909 942 951 950 940	871 888 913 890 887 905 935 930 895 883	887 909 922 916 899 930 944 940 914 895
1 2 3 4 5 6 7 8 9 10	635 645 664 822 674 555 579 641 662 537	JUNE 621 632 637 644 485 531 555 579 525 519	628 638 645 673 537 545 562 616 636 528	723 765 794 830 684 731 666 794 530 600	JULY 652 722 760 545 569 618 594 501 463 443	697 751 782 766 620 699 626 602 488 516	651 747 842 878 886 895 912 909 919 937	AUGUST  529 651 747 792 843 883 887 891 902 909	579 703 795 840 868 889 904 899 909 920	896 923 930 929 909 942 951 950 940 906	871 888 913 890 887 905 935 930 895 883	887 909 922 916 899 930 944 940 914 895
1 2 3 4 5 6 7 8 9 10	635 645 664 822 674 555 579 641 662 537 547 409 433	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340	628 638 645 673 537 545 562 616 636 528 534 325 393	723 765 794 830 684 731 666 794 530 600	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467	697 751 782 766 620 699 626 602 488 516 611 514 555	651 747 842 878 886 895 912 909 919 937 941 833 876	AUGUST  529 651 747 792 843 883 887 891 902 909 753 707 238	579 703 795 840 868 889 904 899 909 920 895 766 440	896 923 930 929 909 942 951 950 940 906	871 888 913 890 887 905 935 930 895 883 895 883	887 909 922 916 899 930 944 940 914 895 926 923 901
1 2 3 4 5 6 7 8 9 10 11 12 13 14	635 645 664 822 674 555 641 662 537 547 409 433 517	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433	628 638 645 673 537 545 562 616 636 528 534 325 393 476	723 765 794 830 684 731 666 794 530 600 636 622 659 775	JULY 652 722 760 545 569 618 594 501 463 443 466 393 467 659	697 751 782 766 620 699 626 602 488 516 611 514 555 739	651 747 842 878 886 895 912 909 919 937 941 833 876 520	529 651 747 792 843 883 887 891 902 909 753 707 238 425	579 703 795 840 868 889 904 899 909 920 895 766 440 476	896 923 930 929 909 942 951 950 940 906 947 932 906 1008	871 888 913 890 887 905 935 930 895 883 895 905 883	887 909 922 916 899 930 944 940 914 895 926 923 901 817
1 2 3 4 5 6 7 8 9 10	635 645 664 822 674 555 579 641 662 537 547 409 433	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340	628 638 645 673 537 545 562 616 636 528 534 325 393	723 765 794 830 684 731 666 794 530 600	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467	697 751 782 766 620 699 626 602 488 516 611 514 555	651 747 842 878 886 895 912 909 919 937 941 833 876	529 651 747 792 843 883 887 891 902 909 753 707 238 425	579 703 795 840 868 889 904 899 909 920 895 766 440	896 923 930 929 909 942 951 950 940 906	871 888 913 890 887 905 935 930 895 883 895 883	887 909 922 916 899 930 944 940 914 895 926 923 901
1 2 3 4 5 6 7 8 9 10 11 12 13 14	635 645 664 822 674 555 641 662 537 547 409 433 517	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433	628 638 645 673 537 545 562 616 636 528 534 325 393 476	723 765 794 830 684 731 666 794 530 600 636 622 659 775	JULY 652 722 760 545 569 618 594 501 463 443 466 393 467 659	697 751 782 766 620 699 626 602 488 516 611 514 555 739	651 747 842 878 886 895 912 909 919 937 941 833 876 520	529 651 747 792 843 883 887 891 902 909 753 707 238 425	579 703 795 840 868 889 904 899 909 920 895 766 440 476	896 923 930 929 909 942 951 950 940 906 947 932 906 1008	871 888 913 890 887 905 935 930 895 883 895 905 883	887 909 922 916 899 930 944 940 914 895 926 923 901 817
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	635 645 6645 822 674 555 579 641 537 547 409 433 517 579	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779	JULY 652 722 760 545 569 618 594 501 463 443 466 393 467 659 734 728 750	697 751 782 766 620 699 626 602 488 516 611 514 555 739 765	651 747 842 878 886 895 912 909 919 937 941 833 876 520 604	AUGUST  529 651 747 792 843  883 887 891 902 909 753 707 238 425 520 604 705	579 703 795 840 868 889 904 899 920 895 766 440 476 561	896 923 930 929 909 942 951 950 940 906 947 932 906 1008 638	871 888 913 890 887 905 935 935 935 935 935 935 935 883 895 883 504	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	635 645 6645 822 674 555 579 641 662 537 547 409 433 517 579 625 657	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816	697 751 782 766 620 699 626 602 488 516 611 514 555 739 765	651 747 842 878 886 895 912 909 919 937 941 833 876 520 604 705 798 794	AUGUST  529 651 747 792 843  883 887 891 902 909 753 707 238 425 520 604 705 690	579 703 795 840 868 889 904 899 909 920 895 766 440 476 561	896 923 930 929 909 942 951 950 940 906 1008 638	871 888 913 890 887 905 935 930 895 883 895 883 895 884 638 504 554	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 694
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	635 645 664 822 674 555 579 641 662 537 547 403 517 579 625 657 711	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851	JULY 652 722 760 545 569 618 594 501 463 443 466 393 467 659 734 728 750 816 273	697 751 782 766 620 699 626 488 516 611 514 555 739 765 740 783 826 710	651 747 842 878 886 895 912 909 919 937 941 833 876 604 705 798 794 762	529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460	579 703 795 840 868 889 904 899 909 920 895 766 440 476 561 646 754 744 589	896 923 930 929 909 942 951 950 940 906 947 932 906 1008 638 586 632 784	SEPTEMBE  871 888 913 890 887  905 935 930 895 883  895 905 888 638 504  554 573 632 448	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	635 645 664 822 674 555 579 641 662 537 547 409 433 517 579 625 657 692 711 716	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355	697 7551 782 766 620 699 626 602 488 516 611 514 555 739 765 740 783 826 710 469	651 747 842 878 886 895 912 909 919 937 941 833 876 520 604 705 798 794 762 514	529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471	579 703 795 840 868 889 904 899 909 920 895 766 440 476 561 646 754 744 589 487	896 923 930 929 909 942 951 950 940 906 947 932 906 1008 638 586 632 784 742 486	871 888 913 890 887 905 935 930 895 883 895 883 895 884 638 504 574 632 448	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 550 461
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	635 645 664 822 674 555 579 641 662 537 547 409 433 517 579 625 657 711 716	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355	697 7551 782 766 620 699 626 488 516 611 514 555 739 765 740 783 826 710 469	651 747 842 878 886 895 912 909 919 937 941 833 876 520 604 705 798 794 762 514	529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471	579 703 795 840 868 889 904 899 909 920 895 766 440 476 561 646 754 754 754 758 887	896 923 930 929 909 942 951 950 940 906 1008 638 586 632 784 742 486	871 888 913 890 887 905 935 930 895 883 895 883 895 905 448 448 448	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 596 694
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	635 645 664 822 674 555 579 641 537 547 409 433 517 579 625 657 692 711 716	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711 721	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710 721 746	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355	697 751 782 766 620 699 626 602 488 516 611 514 553 765 740 783 826 710 469	651 747 842 878 886 895 912 909 937 941 833 876 520 604 705 798 794 762 514	AUGUST  529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471 514 600	579 703 795 840 868 889 904 899 920 895 766 440 476 561 646 754 744 589 487	896 923 930 929 909 942 951 950 940 906 947 932 906 1008 638 586 632 784 742 486 560 632	871 888 913 890 887 905 935 930 895 883 895 905 883 504 554 573 632 448 448	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 550 461
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	635 645 664 822 674 555 579 641 662 537 547 409 433 517 579 625 657 711 716	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355	697 7551 782 766 620 699 626 488 516 611 514 555 739 765 740 783 826 710 469	651 747 842 878 886 895 912 909 919 937 941 833 876 520 604 705 798 794 762 514	529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471 514 600 695	579 703 795 840 868 889 904 899 909 920 895 766 440 476 561 646 754 754 754 758 887	896 923 930 929 909 942 951 950 940 906 1008 638 586 632 784 742 486	871 888 913 890 887 905 935 930 895 883 895 883 895 905 448 448 448	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 596 694
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	635 645 6645 6642 674 555 579 641 662 537 547 409 433 517 579 625 627 711 716 731 750	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711 721 723	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710 721 746 741	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355 433 457 537	697 751 782 766 620 699 626 602 488 516 611 514 555 739 765 740 783 826 710 469 441 506 576	651 747 842 878 886 895 912 909 919 937 941 833 876 520 604 705 798 794 762 514	529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471	579 703 795 840 868 889 904 899 920 895 766 440 476 561 646 754 744 589 487	896 923 930 929 909 942 951 950 940 906 947 932 906 1008 638 586 632 784 742 486	SEPTEMBE  871 888 913 890 887  905 935 930 895 883  895 885 638 504 554 573 632 448 448 486 560 632	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 550 461 520 595 671
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	635 645 6645 6642 674 555 579 641 642 537 547 409 433 517 579 625 657 692 711 716 731 759 777 783	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711 721 723 738 722	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710 721 746 741 759 756	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514 457 537 607 701 760	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355  433 457 537 607 688	697 751 782 766 620 699 626 602 488 516 611 514 555 739 765 740 783 826 710 469 441 506 576 671 734	651 747 842 878 886 895 912 909 919 937 941 833 876 520 604 705 798 794 762 514 600 695 753 801 826	529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471 514 600 695 753 799	579 703 795 840 868 889 904 899 920 895 766 440 476 561 646 754 744 589 487 558 642 730 786 813	896 923 930 929 909 942 951 950 940 906 1008 638 586 632 784 742 486 560 632 701 803 849	871 888 913 890 887 905 935 935 935 935 883 895 883 504 554 573 632 448 448 486 560 632 701 800	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 550 461 550 461 550 822
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	635 645 664 822 674 555 579 641 662 537 547 409 433 517 579 625 657 711 716 731 759 750 777 783	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711 721 723 738 722	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710 721 746 741 759 756	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514 457 537 607 701 760	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355  433 457 537 607 688	697 7551 782 766 620 699 626 488 516 611 514 555 739 765 740 783 826 710 469 441 506 671 734	651 747 842 878 886 895 912 909 919 937 941 833 876 604 705 798 794 794 795 514 600 695 753 826	529 651 747 792 843 883 887 902 909 753 707 238 425 520 604 705 690 460 471 514 600 695 753 799	579 703 795 840 868 889 904 899 909 920 895 766 440 476 561 646 754 744 589 487 558 642 730 786 813	896 923 930 929 909 942 951 950 940 906 1008 638 586 632 784 742 486 560 632 701 803 849	871 888 913 890 887 905 935 930 895 883 895 905 883 638 504 554 573 632 448 448 486 560 632 701 800	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 550 461 520 595 671 759 822
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	635 645 6645 6642 674 555 579 641 662 537 547 409 433 517 579 625 6657 692 711 716 731 759 777 783 804 548	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711 723 738 722 404 352 439	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710 721 746 741 759 756	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514 457 537 607 701 760 788 804 857	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355  433 457 537 607 688 736 768 659	697 751 782 766 620 699 626 602 488 516 611 514 555 739 765 740 783 826 710 469 441 506 576 671 734	651 747 842 878 886 895 912 909 937 941 833 876 520 604 705 798 794 762 514 600 695 753 801 826	529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471 514 600 695 753 799	579 703 795 840 868 889 904 899 920 895 766 440 476 561 646 754 744 589 487 558 642 730 786 813 838 860 883	896 923 930 929 909 942 951 950 940 906 947 932 906 1008 638 586 632 784 742 486 560 632 701 803 849	871 888 913 890 887 905 935 935 935 935 883 895 883 504 554 573 632 448 448 486 560 632 701 800 800 800 800 800 800 800 8	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 559 671 759 822
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	635 645 664 822 674 555 579 641 662 537 547 403 517 579 625 657 711 716 731 759 750 777 783 804 516 648 749 750 777 783	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711 721 723 738 722 404 352 439 487	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710 721 746 741 759 756 755 421 464 514	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514 457 537 607 701 760 788 804 857 686	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355  433 457 537 607 688  736 768 659 357	697 751 782 766 620 699 6262 488 516 611 514 555 739 765 740 783 826 710 469 441 506 671 734 761 794 794 794	651 747 842 878 886 895 912 909 919 937 941 833 876 604 705 798 794 794 600 695 753 81 826 864 865 892 886	529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471 514 600 695 753 799	579 703 795 840 868 889 904 899 909 920 895 766 440 476 561 646 754 744 589 487 558 642 730 786 813 838 860 883 879	896 923 930 929 909 942 951 950 940 906 1008 638 586 632 784 742 486 560 632 701 803 849	871 888 913 890 887 905 935 930 895 883 895 905 883 895 905 448 448 448 448 448 486 560 632 701 800 822 910 927 937	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 550 461 520 595 671 759 822
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30	635 645 644 822 674 555 579 641 662 537 547 409 433 517 579 625 657 6711 716 731 759 750 777 783 804 487 542 652	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711 721 723 738 722 404 352 439 487 541	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710 721 746 741 759 756 755 421 464 514 591	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514 457 537 607 701 760 788 804 857 686 521	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355  433 457 537 607 688  736 768 659 357 475	697 751 782 766 620 699 626 602 488 516 611 514 555 740 783 826 671 740 441 506 576 671 734 761 794 796 471 505	651 747 842 878 886 895 912 909 937 941 833 876 520 604 705 798 794 762 514 600 695 753 801 826 864 886 886 886 886	529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471 514 600 695 753 799 797 855 862 869 861	579 703 795 840 868 889 904 899 920 895 766 440 476 561 646 754 744 744 744 789 487 558 642 730 786 813 838 860 883 879 877	896 923 930 929 909 942 951 950 940 906 947 932 906 1008 638 586 632 784 742 486 560 632 701 803 849 920 946 956 956 956 956 9575 959	SEPTEMBE  871 888 913 890 887 905 935 930 895 883 895 905 888 504 554 573 632 448 448 486 560 632 701 800 822 910 927 937 936	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 596 671 759 822 882 928 938 953
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	635 645 664 822 674 555 579 641 662 537 547 403 517 579 625 657 711 716 731 759 750 777 783 804 516 642 742 652	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711 721 723 738 722 404 352 404 352 404 352 404 352 404	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710 721 746 741 759 756 755 421 464 514 591	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514 457 537 607 701 760 788 804 857 686 521 531	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355  433 457 537 607 688  736 768 659 357 475 504	697 751 782 766 620 699 6262 488 516 611 514 555 739 765 740 783 826 710 469 441 506 576 671 734 761 794 794 796 471 505 513	651 747 842 878 886 895 912 909 919 937 941 833 876 604 705 798 794 762 514 600 695 753 801 826 864 865 892 886 886 894	AUGUST  529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471 514 600 695 753 799 797 855 862 869 861 870	579 703 795 840 868 889 904 899 909 920 895 766 440 476 561 646 754 744 744 748 589 487 558 642 730 786 813 838 860 883 879 877 885	896 923 930 929 909 942 951 950 940 906 1008 638 586 632 784 742 486 560 632 701 803 849 920 946 956 975 983	871 888 913 890 887 905 935 930 895 883 895 883 504 554 573 632 448 448 486 560 632 701 800 822 910 927 937 966 	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 550 461 520 595 671 759 822 882 928 933 940
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30	635 645 644 822 674 555 579 641 662 537 547 409 433 517 579 625 657 6711 716 731 759 750 777 783 804 487 542 652	JUNE 621 632 637 644 485 531 555 579 525 519 384 274 340 433 517 579 625 657 691 698 711 721 723 738 722 404 352 439 487 541	628 638 645 673 537 545 562 616 636 528 534 325 393 476 548 603 641 670 699 710 721 746 741 759 756 755 421 464 514 591	723 765 794 830 684 731 666 794 530 600 636 622 659 775 779 751 822 839 851 514 457 537 607 701 760 788 804 857 686 521	JULY  652 722 760 545 569  618 594 501 463 443  466 393 467 659 734  728 750 816 273 355  433 457 537 607 688  736 768 659 357 475	697 751 782 766 620 699 626 602 488 516 611 514 555 740 783 826 671 740 441 506 576 671 734 761 794 796 471 505	651 747 842 878 886 895 912 909 937 941 833 876 520 604 705 798 794 762 514 600 695 753 801 826 864 886 886 886 886	AUGUST  529 651 747 792 843 883 887 891 902 909 753 707 238 425 520 604 705 690 460 471 514 600 695 753 799 797 855 862 869 861 870	579 703 795 840 868 889 904 899 920 895 766 440 476 561 646 754 744 744 744 789 487 558 642 730 786 813 838 860 883 879 877	896 923 930 929 909 942 951 950 940 906 947 932 906 1008 638 586 632 784 742 486 560 632 701 803 849 920 946 956 956 956 956 9575 959	SEPTEMBE  871 888 913 890 887 905 935 930 895 883 895 905 888 504 554 573 632 448 448 486 560 632 701 800 822 910 927 937 936	887 909 922 916 899 930 944 940 914 895 926 923 901 817 569 564 596 694 596 671 759 822 882 928 938 953

BLUE RIVER BASIN

## 06893500 BLUE RIVER NEAR KANSAS CITY, MO--Continued

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OXYGEN DISSOLVED, (mg/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		D	ECEMBER			JANUARY	?
1	9.8	7.6	8.4	8.7	6.4	7.4	10.2	8.3	9.5			
2	9.8 9.4	7.3 6.7	8.2 7.9	8.5 8.9	5.9 6.1	7.0 7.3	10.0 8.8	8.2 5.7	9.2 7.7			
4	8.5	6.4	7.4	7.9	5.9	6.7	7.7	5.2	6.5			
5	9.5	7.3	8.9	8.4	6.0	6.9	7.5	3.9	6.1			
6	9.2	8.8	9.0	8.5	5.7	6.9	7.8	5.2	6.6			
7	9.5	8.8	9.0	7.6	5.2	6.3	8.2					
8	9.4	8.4	8.8	8.2	5.6	6.7	9.1	5.4	7.2 7.5 8.5			
9	9.1	7.7 7.0	8.3 7.4	9.3	6.6 7.4	7.7	10.0	6.4	8.5			
10	8.1	7.0	/.4	8.7	7.4	7.9						
11	8.4	7.0	7.5	9.5	7.2	8.1						
12 13	8.1	7.1	7.5	9.8 9.6	7.3	8.4						
14	8.6 9.1	7.2 7.6	7.7 8.1	9.2	6.8 6.3	8.0 7.4						
15	10.4	7.4	8.8	8.4	5.1	6.5						
1.6	10.2	0 4	1.0	0 1	F 1	<i>c</i> 2						
16 17	10.3 10.1	9.4 9.6	10 9.9	8.1 7.7	5.1 4.7	6.3 6.1						
18	9.7	8.8	9.3	6.4	4.3	5.2						
19	9.4	8.5	8.8	8.0	4.7	6.2						
20	8.9	7.7	8.4	10.6	6.4	8.6						
21	8.1	6.7	7.4	11.1	8.2	9.5						
22	7.3	5.7	6.5	10.4	8.0	9.0						
23	6.8	5.2	5.8	8.7	7.4	7.9						
24 25	6.9 8.4	5.0 6.0	5.8 7.1	9.0 8.6	6.7 8.1	8.3 8.4						
23	0.1	0.0	/ • ±	0.0	0.1	0.1						
26	9.8	7.6	8.5	8.4	7.6	8.0						
27 28	10.3 10.5	8.6	9.3 9.4	9.1 9.9	7.6	8.4 9.2						
29	10.3	8.6 7.9	8.8	10.4	8.4 7.9	9.6						
30	9.8	7.6	8.5	10.0	7.6	9.3						
31	9.6	7.1	8.2									
MONTH	10.5	5.0	8.2	11.1	4.3	7.6						
DAV	MAY	MIN	MEAN	MAY	MIN	MEAN	MAY	MIN	MEAN	MAY	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		MIN FEBRUARY	MEAN		MIN MARCH	MEAN		MIN APRIL	MEAN	MAX	MIN MAY	MEAN
			MEAN			MEAN					MAY	
DAY 1 2		FEBRUARY			MARCH			APRIL	MEAN	MAX 7.9 8.9		MEAN 7.7 8.2
1 2 3		FEBRUARY		 	MARCH	 	 	APRIL	 	7.9 8.9 9.3	MAY 7.5 7.2 8.0	7.7 8.2 8.5
1 2 3 4	  	FEBRUARY	  		MARCH	  	  	APRIL	  	7.9 8.9 9.3 9.2	MAY 7.5 7.2 8.0 7.8	7.7 8.2 8.5 8.5
1 2 3		FEBRUARY		 	MARCH	 	 	APRIL	 	7.9 8.9 9.3	MAY 7.5 7.2 8.0	7.7 8.2 8.5
1 2 3 4 5		FEBRUARY			MARCH	  	   13.6	APRIL	   12.1 11.2	7.9 8.9 9.3 9.2 9.0	MAY 7.5 7.2 8.0 7.8	7.7 8.2 8.5 8.5 8.2
1 2 3 4 5	====	FEBRUARY		   	MARCH	    	  13.6 12.7 10.2	APRIL 10.9 10.2 9.1	   12.1 11.2	7.9 8.9 9.3 9.2 9.0 7.7 7.8	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6	7.7 8.2 8.5 8.5 8.2 7.0 7.5
1 2 3 4 5 6 7 8	    	FEBRUARY		   	MARCH	 	  13.6 12.7 10.2 9.8	APRIL 10.9 10.2 9.1 8.8	  12.1 11.2 9.5 9.2	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0
1 2 3 4 5	====	FEBRUARY		    	MARCH	    	  13.6 12.7 10.2	APRIL 10.9 10.2 9.1	   12.1 11.2	7.9 8.9 9.3 9.2 9.0 7.7 7.8	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6	7.7 8.2 8.5 8.5 8.2 7.0 7.5
1 2 3 4 5 6 7 8 9		FEBRUARY		    	MARCH		  13.6 12.7 10.2 9.8 10.6 11.0	APRIL 10.9 10.2 9.1 8.8 9.4 9.1	  12.1 11.2 9.5 9.2 10 9.8	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 8.5	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1
1 2 3 4 5 6 7 8 9 10		FEBRUARY		    	MARCH		  13.6 12.7 10.2 9.8 10.6 11.0	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3	  12.1 11.2 9.5 9.2 10 9.8 9.1	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.1 8.3 7.1	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1 8.7
1 2 3 4 5 6 7 8 9		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6	APRIL 10.9 10.2 9.1 8.8 9.4 9.1	  12.1 11.2 9.5 9.2 10 9.8	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 8.5	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3	11.2 9.5 9.2 10 9.8 9.1 8.7 9.4	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.8	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.1 8.3 7.1 6.9 8.3 8.0	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.1 8.7 8.3 7.7 8.3
1 2 3 4 5 6 7 8 9 10		FEBRUARY		      	MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1	  12.1 11.2 9.5 9.2 10 9.8 9.1 8.7	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 8.5 9.0 8.6 8.4 9.1	MAY 7.5 7.2 8.0 7.6 7.6 3.2 6.6 7.6 7.6 7.1 8.3 7.1 6.9 8.3	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1 8.7 8.3 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3	11.2 9.5 9.2 10 9.8 9.1 8.7 9.4	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.8	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.1 8.3 7.1 6.9 8.3 8.0	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.1 8.7 8.3 7.7 8.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5	  12.1 11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.8	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.6 8.6 8.2	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1 8.7 8.3 7.7 8.6 8.4 8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		        	MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.5 6.5	  12.1 11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7	7.9 8.9 9.3 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.8 8.5	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1 7.5 8.5	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1 8.7 8.3 7.7 8.6 8.4 8.2 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5	11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.8 7.9 7.2 6.5	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.6 8.6 8.2	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1 8.7 8.3 7.7 8.6 8.4 8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUARY		        	MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.8 6.5 5.8 5.5	  12.1 11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.8 7.2 6.5 6.9	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.8 8.6 8.2 9.2 9.2	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1 7.5 8.5 8.2 8.4	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1 8.7 8.3 7.7 8.6 8.4 8.2 7.7 8.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0 8.8 9.2 7.3 8.5	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.8 6.5 5.8 5.5	11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.8 7.9 7.2 6.5 6.9	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.8 8.6 8.2 8.7 9.2 9.2	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1 7.5 8.5 8.2 8.4 8.6	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.1 8.7 8.3 7.7 8.4 8.2 7.7 8.3 8.4 8.2 7.7 8.8 8.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY		        	MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0	APRIL  10.9  10.2 9.1 8.8 9.4 9.1  8.3 8.0 8.1 8.3 7.5 6.5 6.8 6.5 5.5 0.3 7.9	11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.8 7.9 7.2 6.5 6.9	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.6 8.7 9.2 9.1 9.2	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 7.1 7.5 8.5 8.4 8.6 8.5	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.1 8.7 8.3 7.7 8.4 8.2 7.7 8.8 8.2 7.7 8.8 8.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0 8.8 9.2 7.9 7.9 7.9 8.5	APRIL 10.9 10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.8 6.5 5.8 5.5	11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.8 7.9 7.2 6.5 6.9	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.8 8.6 8.2 8.7 9.2 9.2	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1 7.5 8.5 8.2 8.4 8.6	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.1 8.7 8.3 7.7 8.4 8.2 7.7 8.3 8.4 8.2 7.7 8.8 8.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0 8.8 9.2 7.9 7.3 8.5	APRIL  10.9  10.2 9.1 8.8 9.4 9.1  8.3 8.0 8.1 8.3 7.5 6.5 6.5 6.8 6.5 5.8 5.7 0.3 7.9	  12.1 11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.2 6.5 6.9	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.4 9.1 8.8 8.6 8.2 9.2 9.2 9.2 9.2	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1 7.5 8.5 8.2 8.4 8.6 8.5 7.4	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1 8.7 8.3 7.7 8.6 8.4 8.2 7.7 8.8 8.9 8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0 8.8 9.2 7.9 7.3 8.5	APRIL  10.9  10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.8 6.5 5.8 0.3 7.9 7.0 6.8 7.4	  12.1 11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.2 6.5 6.9 7.4 8.8 7.7 7.2 7.9	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.4 9.1 8.6 8.2 9.2 9.1 9.2 9.2 9.3	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1 7.5 8.5 8.2 8.4 8.6 8.7	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.0 8.1 8.7 8.6 8.4 8.2 7.7 8.8 8.9 8.2 8.4 8.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		FEBRUARY			MARCH		13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0,7 10.6 10.0 8.8 9.2 7.3 8.5 9.8 9.2 8.1 7.7	APRIL 10.9 10.2 9.1 8.3 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.5 6.8 5.5 0.3 7.9 7.0 6.8	11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.8 7.9 6.5 6.9 7.4 8.8 7.7	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.8 8.6 8.2 9.2 9.1 9.2 9.5 8.5	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 7.5 7.1 7.5 8.5 8.2 8.4 8.6 8.5 7.4 7.8 8.7	7.7 8.2 8.5 8.5 8.2 7.0 8.1 8.7 8.3 7.7 8.4 8.2 7.7 8.8 8.7 8.8 9.0 8.9 8.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0 8.8 9.2 7.9 7.3 8.5 9.8 9.2 8.1 7.7 8.5	APRIL  10.9  10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.8 6.5 5.5 0.3 7.0 6.8 7.4 7.4 7.2 8.3	  12.1 11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.2 6.9 7.4 8.8 7.7 7.2 7.9	7.9 8.9 9.3 9.0 7.7 7.8 8.5 9.0 8.4 9.1 8.6 8.2 9.2 9.5 8.6 9.1 9.0 9.3 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1 7.5 8.5 8.2 8.4 8.6 8.5 7.4 7.8 8.7 7.9	7.7 8.2 8.5 8.5 8.2 7.0 7.5 8.1 8.7 8.6 8.1 8.7 8.6 8.2 7.7 8.8 8.9 8.9 8.2 8.8 8.8 8.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		FEBRUARY			MARCH		13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0,7 10.6 10.0 8.8 9.2 7.3 8.5 9.8 9.2 8.1 7.7 8.5	APRIL 10.9 10.2 9.1 8.3 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.5 6.8 5.5 0.3 7.9 7.0 6.8 7.4 7.4 7.2 8.3 7.9	11.2 9.5 9.2 10 9.8 9.1 8.7 7.8 7.9 7.2 6.5 6.9 7.4 8.8 7.7 7.2 7.9 7.7 8.6 8.8 8.5	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.8 8.6 8.2 9.1 9.2 9.5 8.6 9.2 9.1 9.2 9.3	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1 7.5 8.2 8.4 8.6 8.5 7.4 8.7 8.2 7.9 7.6	7.7 8.25 8.5 8.5 8.2 7.0 8.1 8.7 8.3 7.7 8.4 8.2 7.7 8.8 8.7 8.8 8.9 8.9 8.9 8.9 8.1 8.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0 8.8 9.2 7.9 7.3 8.5 9.8 9.2 8.1 7.7 8.5	APRIL  10.9  10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.8 6.5 5.5 0.3 7.0 6.8 7.4 7.4 7.2 8.3	  12.1 11.2 9.5 9.2 10 9.8 9.1 8.7 9.4 9.5 8.7 7.2 6.9 7.4 8.8 7.7 7.2 7.9	7.9 8.9 9.3 9.0 7.7 7.8 8.5 9.0 8.4 9.1 8.6 8.2 9.2 9.5 8.6 9.1 9.0 9.3 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 8.0 7.5 7.1 7.5 8.5 8.2 8.4 8.6 8.5 7.4 7.8 8.7 7.9	7.7 8.25 8.5 8.5 8.2 7.5 8.1 8.7 8.3 7.7 8.4 8.2 7.7 8.3 8.8 8.9 8.9 8.2 8.1 9.9 8.2 8.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		FEBRUARY			MARCH		13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0 8.8 9.2 7.3 8.5 9.8 9.2 8.1 7.7 8.5 8.2 9.6 9.1 9.0 8.3	APRIL 10.9 10.2 9.1 8.3 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.5 6.5 5.8 5.5 0.3 7.9 7.0 6.8 7.4 7.4 7.2 8.3 7.9 7.7	11.2 9.5 9.2 10 9.8 9.1 8.7 7.8 7.9 7.2 6.5 6.9 7.4 8.8 7.7 7.2 7.9 7.7 8.6 8.8 8.5 8.0	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 8.4 9.1 8.8 8.6 8.2 9.1 9.2 9.5 8.6 9.3 9.3 9.2 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.1 8.3 7.1 6.9 8.0 7.5 7.1 7.5 8.2 8.4 8.6 8.5 7.4 7.8 8.7 8.2 7.9 7.6 7.6 7.6	7.7 8.25 8.5 8.5 8.2 7.0 8.1 8.7 8.3 7.7 8.4 8.2 7.7 8.8 8.7 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		FEBRUARY			MARCH		  13.6 12.7 10.2 9.8 10.6 11.0 9.9 10.0 10.7 10.6 10.0 8.8 9.2 7.9 7.3 8.5 9.2 8.1 7.7 8.5 8.2 9.6 9.1 9.0 8.3	APRIL  10.9  10.2 9.1 8.8 9.4 9.1 8.3 8.0 8.1 8.3 7.5 6.5 6.5 6.5 6.5 6.7 4 7.4 7.4 7.4 7.2 8.3 7.9 7.7	11.2 9.5 9.2 10 9.8 9.1 8.7 9.5 8.7 7.8 7.9 7.2 7.7 8.6 8.8 7.7 7.7 8.6 8.8 8.5 8.5	7.9 8.9 9.3 9.2 9.0 7.7 7.8 8.5 9.0 8.6 4.1 8.6 8.7 9.1 9.5 8.6 9.1 9.3 9.3 9.0 9.3 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAY 7.5 7.2 8.0 7.8 7.6 3.2 6.6 7.6 7.1 8.3 7.1 6.9 8.3 7.5 7.1 7.5 8.5 8.6 8.7 8.6 8.7 8.7 8.6 8.7 8.7 8.7 8.7	7.7 8.25 8.5 8.5 8.2 7.5 8.1 8.7 8.3 7.7 8.4 8.2 7.7 8.3 8.8 8.9 8.9 8.2 8.1 9.9 8.2 8.1

MONTH 1100

3.0

43

1400

2.0

17

## 06893500 BLUE RIVER NEAR KANSAS CITY, MO--Continued

OXYGEN DISSOLVED, (mg/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN		MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		i	AUGUST			SEPTEMBE	R
1 2 3 4 5	8.9 8.9 9.1 8.3 8.8	6.8 6.6 6.3 6.5	7.7 7.5 7.6 7.1 7.5	8.4 8.3 8.6 7.4 7.9	5.4 5.6 6.1 6.0 6.2				6.4 6.6 6.9 6.3 6.6	8.7 8.6 8.4 8.5 8.1	5.6 5.2 5.3	7.1 6.8 6.6 6.7 6.6
6 7 8 9 10	9.2 9.6 9.9 8.4 8.4	7.1 7.0 6.7 6.5 6.7	7.9 8.0 8.0 7.1 7.3	6 7	5.8 5.7 5.7 5.4 5.5	6.9 6.8 6.3 6.0	7.1 8.7 9.6 9.5 7.8	5.4 6.0 6.4 7.1 6.3	6.2 7.2 7.8 8.0 7.0	7.8 7.6 7.6 7.8 7.7	5.5	6.3 6.4
11 12 13 14 15	7.4 7.3 7.2 7.8 8.2	6.4 6.8 6.8 7.1 7.4	6.9 7.0 7.0 7.5 7.7	7.4 6.9 7.7 8.2 8.4	5.8 6.1 5.9 6.4 6.2	6.5 6.8 7.1	  		e5.9 e5.8 e7.0 e6.5 e6.4	7.8 8.2 8.1 7.2 7.6	6.4 6.4	6.7
16 17 18 19 20	8.5 8.8 8.9 10.1 10.0	7.3 7.2 6.9 7.1 6.8	7.8 7.9 7.8 8.3 8.2	8.8 8.8 9.2 6.5	6.2 6.1 5.9 5.9	7.2 7.4 7.3 7.2 7.1 6.3	6.8 7.4 7.2 7.2	5.9 6.6 6.4 6.4	e6.6 6.3 6.9 6.8 6.7	7.7 7.6 7.2 7.7 7.9	6.8	7.2 7.0 6.9 7.4 7.6
21 22 23 24 25	9.6 9.7 9.9 9.7 9.7	6.4 6.0 6.0 6.1 6.2	7.8 7.6 7.7 7.7 7.6	7.6	5.6 5.5 6.0 6.2 6.2	5.9 6.0 6.6 7.0 7.1	7.1 7.4 7.5 7.1 7.9			8.2 8.5 9.0 9.3 9.3	7.4 7.8 7.3	8.4
26 27 28 29 30 31	8.7 7.3 7.5 7.9 8.0	5.8 5.9 5.5 4.9 5.2	7.0 6.7 6.4 6.4 6.5	8.3 8.3 8.1 7.1 7.1 7.2	5.9 5.7 5.5 6.1 5.8 5.5	7.0 6.8 6.5 6.7 6.3 6.2	8.0 7.9 8.3 8.3 8.6 8.9	6.1 6.0 6.0 6.0 6.0	6.9 6.8 7.0 7.1 7.1	9.1 8.9 9.1 8.9 8.7	7.2	8.2 7.9 7.9 7.7 7.5
MONTH	10.1	4.9	7.4	9.2			9.6			9.3	5.2	7.2
			TIPDID.	(2777)		man ogmo	DDD 0001 FF	0 GERREIN				
DAY	MAX	MIN	TURBID:	ITY, (NTU),	WATER Y		DBER 2001 TO	O SEPTEM		2 MAX	MIN	MEAN
DAY	MAX	MIN OCTOBE	MEAN	MAX		MEAN	MAX		MEAN		MIN JANUARY	
DAY  1 2 3 4 5	MAX 11 29 10 11 900		MEAN	MAX N	MIN IOVEMBER	MEAN	MAX	MIN ECEMBER 4.0	MEAN			
1 2 3 4	11 29 10 11	0CTOBE 6.0 5.0 4.0 5.0 10	MEAN R 8.4 8.1 6.5 7.2	7.0 6.0 6.0 7.0 7.0	MIN TOVEMBER 3.0 4.0 4.0 4.0 3.0	MEAN 4.9 4.6 4.9 5.1 5.1	MAX D1 7.0 9.0 17 20	MIN ECEMBER 4.0 4.0 5.0 5.0 4.0	MEAN 4.9 5.5 7.0 7.0	MAX	JANUARY  	  
1 2 3 4 5 6 7 8 9	11 29 10 11 900 300 84 27 19	0CTOBE 6.0 5.0 4.0 5.0 10	MEAN  8.4  8.1 6.5 7.2 290 140	7.0 6.0 6.0 7.0 7.0	MIN TOVEMBER 3.0 4.0 4.0 4.0 3.0	MEAN 4.9 4.6 4.9 5.1	MAX D1 7.0 9.0 17 20 71	MIN ECEMBER 4.0 4.0 5.0 5.0 4.0 5.0 4.0 4.0	MEAN 4.9 5.5 7.0 7.0 16 8.8 5.5 5.6 4.8	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	11 29 10 11 900 300 84 27 19 55 31 35 60	0CTOBE 6.0 5.0 4.0 5.0 10 83 27 16 12 12 12	MEAN  R  8.4 8.1 6.5 7.2 290 140 56 20 15 23 19 17 26 e29	7.0 6.0 6.0 7.0 7.0 7.0 8.0 9.0 6.0 6.0 6.0	MIN OVEMBER 3.0 4.0 4.0 4.0 3.0 4.0 4.0 3.0 4.0 4.0 3.0 3.0 4.0 4.0 3.0 3.0 3.0 4.0 4.0 4.0 3.0 3.0 4.0 4.0 4.0 3.0 3.0	4.9 4.6 4.9 5.1 5.1 4.8 5.5 5.5 4.8 3.7 4.7	7.0 9.0 17 20 71 24 8.0 13 11	MIN ECEMBER 4.0 4.0 5.0 5.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	4.9 5.5 7.0 7.0 16 8.8 5.5 5.6 4.8	MAX	JANUARY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11 29 10 11 900 300 84 27 19 55 31 35 60 	0CTOBE 6.0 5.0 4.0 9.0 10 83 27 16 12 12 12	MEAN  R  8.4 8.1 6.5 7.2 290  140 56 20 15 23 19 17 26 e29 e220 e260 e62 e27 e15	7.0 6.0 7.0 7.0 7.0 7.0 7.0 8.0 9.0 6.0 6.0 6.0 10 8.0 10	MIN OVEMBER 3.0 4.0 4.0 4.0 3.0 3.0 4.0 4.0 3.0 3.0 4.0 4.0 4.0 3.0 3.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	4.9 4.6 4.9 5.1 5.1 4.8 5.5 4.8 3.7 4.7 5.8 4.9 4.7 4.1	MAX DI 7.0 9.0 17 20 71 24 8.0 13 11	MIN ECEMBER  4.0 4.0 5.0 5.0 4.0 4.0 4.0 4.0	4.9 5.5 7.0 7.0 16 8.8 5.5 5.6 4.8	MAX	JANUARY	

## 06893500 BLUE RIVER NEAR KANSAS CITY, MO--Continued

TURBIDITY, (NTU), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2										56 60	37 30	44 41
3										31	22	26
4										26	20	22
5							18	11	14	28	15	20
6							20	12	16	250	15	93
7 8							21 270	14 16	16 99	460 1500	91 190	240 400
9							210	63	100	1500	180	620
10							67	29	43	180	65	100
11							42	22	31	2700	60	420
12							28	18	23	2700	330	910
13 14							25 18	12 11	16 14	340 110	100 54	180 75
15							20	8.8	13	55	40	48
16							17	11	13	200	37	77
17							18	8.1	13	110	52	70
18							21	11	15	100	49	68
19 20							780 1400	16 110	240 350	51 35	34 22	42 29
20							1400	110	330	33	22	2,5
21							1400	170	1100	26	18	23
22 23							700 120	120 58	280 79	31 74	16 15	21 24
24							59	43	51	950	26	87
25							54	36	43	1400	220	750
26							44	33	37	220	68	120
27 28							1400	39	720 400	100 53	50 30	69 44
29							1200 140	130 65	91	40	26	33
30							70	51	57	30	21	26
31										23	15	20
MONTH										2700	15	150
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN	MEAN		MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	
1	20	JUNE 13	16	32	JULY 13	20	52	AUGUST	20	17	SEPTEMBE	9.4
1 2	20 22	JUNE 13 10	16 13	32 37	JULY 13 14	20 20	52 23	AUGUST 10 14	20 18	17 13	SEPTEMBE 6.0 6.0	9.4 9.2
1	20	JUNE 13	16	32	JULY 13	20	52	AUGUST	20	17	SEPTEMBE	9.4
1 2 3	20 22 13	JUNE 13 10 8.0	16 13 10	32 37 33	JULY 13 14 12	20 20 19	52 23 48	AUGUST 10 14 11	20 18 18	17 13 24	SEPTEMBE 6.0 6.0 7.0	9.4 9.2 9.9
1 2 3 4 5	20 22 13 140 120	JUNE 13 10 8.0 7.0 24	16 13 10 27 50	32 37 33 190 74	JULY 13 14 12 13 27	20 20 19 40 47	52 23 48 42 23	10 14 11 16 13	20 18 18 26 17	17 13 24 15	6.0 6.0 7.0 7.0 8.0	9.4 9.2 9.9 10
1 2 3 4 5	20 22 13 140 120	JUNE  13 10 8.0 7.0 24 11 9.0	16 13 10 27 50 18	32 37 33 190 74 40 25	JULY  13 14 12 13 27 16 15	20 20 19 40 47 21	52 23 48 42 23 25 23	AUGUST  10 14 11 16 13 12 12	20 18 18 26 17 16 16	17 13 24 15 15	SEPTEMBE 6.0 6.0 7.0 7.0 8.0 8.0 9.0	9.4 9.2 9.9 10 11
1 2 3 4 5	20 22 13 140 120 27 21 20	JUNE 13 10 8.0 7.0 24 11 9.0 7.0	16 13 10 27 50 18 14 12	32 37 33 190 74 40 25 290	JULY  13 14 12 13 27 16 15 22	20 20 19 40 47 21 19	52 23 48 42 23 25 23 27	AUGUST  10 14 11 16 13 12 12 9.0	20 18 18 26 17 16 16	17 13 24 15 15 22 20 22	SEPTEMBE 6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0	9.4 9.2 9.9 10 11 12 12 13
1 2 3 4 5	20 22 13 140 120	JUNE  13 10 8.0 7.0 24 11 9.0	16 13 10 27 50 18	32 37 33 190 74 40 25	JULY  13 14 12 13 27 16 15	20 20 19 40 47 21	52 23 48 42 23 25 23	AUGUST  10 14 11 16 13 12 12	20 18 18 26 17 16 16	17 13 24 15 15	SEPTEMBE 6.0 6.0 7.0 7.0 8.0 8.0 9.0	9.4 9.2 9.9 10 11
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1 2 3 4 5 6 7 8 9 10	20 22 13 140 120 27 21 20 330 75 1100 1500 560	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110	16 13 10 27 50 18 14 12 46 32 55 790 200	32 37 33 190 74 40 25 290 58 79 600 1300 57	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19	20 20 19 40 47 21 19 120 46 37 60 150 36	52 23 48 42 23 25 23 27 24 22 110 48 1400	10 14 11 16 13 12 12 9.0 12 10 11 16 18	20 18 18 26 17 16 16 15 16 16 16	17 13 24 15 15 15 20 22 27 20 21 20 21 20 20	6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12	9.4 9.2 9.9 10 11 12 12 13 15 15
1 2 3 4 5 6 7 8 9 10 11 12 13 14	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62	16 13 10 27 50 18 14 12 46 32 55 790 200 84	32 37 33 190 74 40 25 290 58 79 600 1300 57 57	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14	20 20 19 40 47 21 19 120 46 37 60 150 36 27	52 23 48 42 23 25 23 27 24 22 110 48 1400 280	AUGUST  10 14 11 16 13 12 12 12 10 11 16 18 552	20 18 18 26 17 16 16 16 16 16 16 26 630 130	17 13 24 15 15 15 20 22 27 20 21 20 20 470	6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12	9.4 9.2 9.9 10 11 12 12 13 15 15 15
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 32	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57	AUGUST  10 14 11 16 13  12 12 9.0 12 10 11 16 18 52 29	20 18 18 26 17 16 16 15 16 16 26 630 130 44	17 13 24 15 15 15 32 20 22 27 20 21 20 20 470 150	6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 70 60
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 57 32	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57	AUGUST  10 14 11 16 13 12 12 12 10 11 16 18 52 29 18	20 18 18 18 26 17 16 16 16 16 16 32 26 630 130 44	17 13 24 15 15 15 32 20 22 27 20 21 20 470 150	SEPTEMBE 6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12 19	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 15 16 00 24
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 32	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57	AUGUST  10 14 11 16 13  12 12 9.0 12 10 11 16 18 52 29	20 18 18 26 17 16 16 15 16 16 26 630 130 44	17 13 24 15 15 15 32 20 22 27 20 21 20 20 470 150	6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 70 60
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11 9.0	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 32 33 51 37	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 8.0	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 19 18 330	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330	AUGUST  10 14 11 16 13 12 12 12 10 11 16 18 52 29 18 20 15 15	20 18 18 18 26 17 16 16 16 16 32 26 630 130 44 29 28 21 91	17 13 24 15 15 15 20 22 27 20 21 20 470 150 43 46 45 1300	8.0 9.0 9.0 11 12 11 11 10 12 19	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 15 16 0 24 24 24 26 140
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51 33 23 15	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 57 32 33 31 37	JULY  13 14 12 13 27  16 15 22 35 20  18 34 19 14 11  9.0 9.0 9.0	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57	AUGUST  10 14 11 16 13  12 12 9.0 12 10 11 16 18 52 29 18 20 15	20 18 18 26 17 16 16 15 16 16 32 26 630 130 44 29 28 21	17 13 24 15 15 15 32 20 22 27 20 21 20 470 150 43 46 45	6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12 19	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 70 60 24 24 26
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	20 22 13 140 120 27 21 20 330 75 1100 1500 65 51 30 19 16 25	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11 9.0 8.0 7.0	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51 33 23 15 12 11	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 32 33 51 37 1500 1500	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 9.0 8.0 200 91	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 19 18 330 350	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58	AUGUST  10 14 11 16 13 12 12 12 10 11 16 18 52 29 18 20 18 20 15 15 18 11	20 18 18 26 17 16 16 16 15 16 16 32 26 630 130 44 29 28 21 91 41	17 13 24 15 15 15 32 20 22 27 20 21 20 470 150 43 46 45 1300 73 34	8.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 16 0 24 24 24 24 24 24 24 24 24 24 24
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65 51 30 19 16 25	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11 9.0 8.0 7.0 7.0	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 32 33 51 37 1500 1500	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 9.0 9.0 9.0 9.0 9.0	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 18 330 350	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58	AUGUST  10 14 11 16 13  12 12 12 9.0 12 10  11 16 18 52 29 18 20 15 15 18 11 8.0	20 18 18 26 17 16 16 15 16 16 26 6330 130 44 29 28 21 91 41	17 13 24 15 15 15 32 20 22 27 20 21 20 20 470 150 43 46 45 1300 73 34 30	6.0 6.0 7.0 7.0 8.0 9.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 16 0 24 24 24 24 24 24 24 24 24 24 24 24 24
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	20 22 13 140 120 27 21 20 330 75 1100 1500 65 51 30 19 16 25 17 17 32 19	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11 9.0 8.0 7.0 9.0 8.0	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51 33 23 15 12 11	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 32 33 51 37 1500 1500	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 9.0 8.0 200  91 41 31 22	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 19 18 330 350	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58	AUGUST  10 14 11 16 13 12 12 12 10 11 16 18 52 29 18 20 15 15 18 11 8.0 7.0 7.0	20 18 18 26 17 16 16 16 16 16 32 26 630 130 44 29 28 21 91 41 18 15 11	17 13 24 15 15 15 32 20 22 27 20 21 20 470 150 43 46 45 1300 73 34 30 19 20	SEPTEMBE 6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24 19 12 12 8.0	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 15 16 44 24 24 24 26 140 44 22 18 16 14
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65 51 30 19 16 25	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11 9.0 8.0 7.0 8.0	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51 33 23 15 12 11 11 11	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 32 33 51 37 1500 1500	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11 9.0 9.0 8.0 200 91 41 31	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 18 330 350 150 62 40	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58	AUGUST  10 14 11 16 13  12 12 9.0 12 10  11 16 18 52 29 18 20 15 15 18 11 8.0 7.0	20 18 18 26 17 16 16 15 16 16 32 26 630 130 44 29 28 21 91 41	17 13 24 15 15 15 32 20 22 27 20 21 20 470 150 43 46 45 1300 73 34 30 19	8.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 16 24 26 140 44 22 18 16
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	20 22 13 140 120 27 21 20 330 75 1100 1500 65 51 30 19 16 25 17 17 32 19	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11 9.0 8.0 7.0 9.0 8.0	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51 33 23 15 12 11	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 32 33 51 37 1500 1500	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 9.0 8.0 200  91 41 31 22	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 19 18 330 350	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58	AUGUST  10 14 11 16 13 12 12 12 10 11 16 18 52 29 18 20 15 15 18 11 8.0 7.0 7.0	20 18 18 26 17 16 16 16 16 16 32 26 630 130 44 29 28 21 91 41 18 15 11	17 13 24 15 15 15 32 20 22 27 20 21 20 470 150 43 46 45 1300 73 34 30 19 20	SEPTEMBE 6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24 19 12 12 8.0	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 15 16 44 24 24 24 26 140 44 22 18 16 14
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65 51 30 19 16 25 17 17 32 19 23	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11 9.0 8.0 7.0 9.0 8.0 9.0 8.0 8.0	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51 33 23 15 12 11 11 11 12 11 12 13 14	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 57 32 33 51 37 1500 1500 210 96 58 47 130	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 9.0 9.0 91 41 31 22 13 10 10	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 18 330 350 150 62 40 31 24	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58 26 31 17 27 17	AUGUST  10 14 11 16 13  12 12 12 10  11 16 18 52 29  18 20 15 15 18  11 8.0 7.0 7.0 7.0 7.0	20 18 18 26 17 16 16 16 16 16 16 26 630 130 44 29 28 21 91 41 18 15 12 11 12	17 13 24 15 15 15 32 20 22 27 20 21 20 20 470 150 43 46 45 1300 73 34 30 19 20 14 14 14	SEPTEMBE 6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24 19 12 12 8.0 9.0 7.0 7.0	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 16 0 24 24 26 140 44 22 18 16 11 11 11 11 11 11 11 11 11 11 11 11
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65 51 30 19 16 25 17 17 32 19 23	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11 9.0 8.0 7.0 8.0 9.0 8.0 8.0 100 33	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51 33 23 15 12 11 11 11 11 12 13 14 95 250 59	32 37 33 190 74 40 25 290 1300 57 57 32 33 51 37 1500 1500 210 96 58 47 130	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 9.0 8.0 200  91 41 31 22 13 10 10 9.0	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 18 330 350 150 62 40 31 24 23 16 30	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58 26 31 17 27 17	AUGUST  10 14 11 16 13 12 12 12 9.0 12 10 11 16 18 8.0 7.0 7.0 7.0 7.0 7.0 7.0	20 18 18 26 17 16 16 15 16 16 13 26 630 130 44 29 28 21 91 41 18 15 12 11 12 11 11	17 13 24 15 15 15 32 20 22 27 20 21 20 20 470 150 43 46 45 1300 73 34 30 19 20 14 14 14 13	6.0 6.0 7.0 7.0 8.0 9.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24 19 12 12 8.0 9.0 9.0	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 16 24 24 26 140 44 21 18 16 14 11 10 9.0 8.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65 51 30 19 16 25 17 17 32 19 23 730 10 24 11 25 11 11 11 11 11 11 11 11 11 11 11 11 11	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37  23 17 11 9.0 8.0 7.0 9.0 8.0 9.0 8.0 100 33 17 15	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51 33 23 15 12 11 11 11 12 13 14 95 250 59 28 22	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 57 32 33 51 37 1500 1500 210 96 58 47 130	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 9.0 91 41 31 22 13 10 10 9.0 79 24	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 18 330 350 150 62 40 31 24 23 16 30 27 24	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58 26 31 17 27 17	AUGUST  10 14 11 16 13  12 12 12 10 11 16 18 52 29 18 20 15 18 11 8.0 7.0 7.0 7.0 7.0 6.0 6.0	20 18 18 26 17 16 16 16 16 16 16 13 26 630 130 44 29 28 21 91 41 18 15 12 11 11 11 11	17 13 24 15 15 15 32 20 22 27 20 21 20 20 470 150  43 46 45 1300 73  34 30 19 20 14  14 13 12 11 11	\$\text{SEPTEMBE}\$ 6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24 19 12 12 8.0 9.0 7.0 6.0 4.0 4.0	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 16 0 24 24 26 140 44 11 10 9.0 8.1 7.0 6.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	20 22 13 140 120 27 21 20 330 75 1100 1500 65 51 30 19 16 25 17 17 32 19 23 730 620 110 42	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37 23 17 11 9.0 8.0 7.0 9.0 8.0 7.0 8.0 9.0 8.0 100 33 17	16 13 10 27 50 18 14 112 46 32 55 790 200 84 51 33 23 15 12 11 11 11 11 12 13 14 95 250 59 28	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 32 33 51 37 1500 1500 210 96 58 47 130	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 8.0 200  91 41 31 22 13 10 10 9.0 79	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 19 18 330 350 150 62 40 31 24 23 16 30 270 270	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58 26 31 17 27 17	AUGUST  10 14 11 16 13 12 12 12 10 11 16 18 52 29 18 20 15 15 18 11 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	20 18 18 26 17 16 16 15 16 16 16 32 26 630 130 44 29 28 21 91 41 18 15 12 11 11 12	17 13 24 15 15 15 32 20 22 27 20 21 20 470 150 43 46 45 1300 73 34 30 19 20 14 14 13 12 11	SEPTEMBE 6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24 19 12 8.0 9.0 7.0 6.0 4.0	9.4 9.2 9.9 10 11 12 12 12 13 15 15 15 15 15 16 44 24 24 26 140 44 11 10 9.0 8.1 7.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	20 22 13 140 120 27 21 20 330 75 1100 1500 560 110 65 51 30 19 16 25 17 17 32 19 23 730 10 24 11 25 11 11 11 11 11 11 11 11 11 11 11 11 11	JUNE  13 10 8.0 7.0 24  11 9.0 7.0 9.0 18  11 430 110 62 37  23 17 11 9.0 8.0 7.0 9.0 8.0 9.0 8.0 100 33 17 15	16 13 10 27 50 18 14 12 46 32 55 790 200 84 51 33 23 15 12 11 11 11 12 13 14 95 250 59 28 22	32 37 33 190 74 40 25 290 58 79 600 1300 57 57 57 32 33 51 37 1500 1500 210 96 58 47 130	JULY  13 14 12 13 27 16 15 22 35 20 18 34 19 14 11  9.0 9.0 9.0 91 41 31 22 13 10 10 9.0 79 24	20 20 19 40 47 21 19 120 46 37 60 150 36 27 22 19 18 330 350 150 62 40 31 24 23 16 30 27 24	52 23 48 42 23 25 23 27 24 22 110 48 1400 280 57 44 40 26 330 58 26 31 17 27 17	AUGUST  10 14 11 16 13  12 12 12 10 11 16 18 52 29 18 20 15 18 11 8.0 7.0 7.0 7.0 7.0 6.0 6.0	20 18 18 26 17 16 16 16 16 16 16 13 26 630 130 44 29 28 21 91 41 18 15 12 11 11 11 11	17 13 24 15 15 15 32 20 22 27 20 21 20 20 470 150  43 46 45 1300 73  34 30 19 20 14  14 13 12 11 11	\$\text{SEPTEMBE}\$ 6.0 6.0 7.0 7.0 8.0 8.0 9.0 9.0 11 12 11 11 10 12 19 14 13 16 30 24 19 12 12 8.0 9.0 7.0 6.0 4.0 4.0	9.4 9.2 9.9 10 11 12 12 13 15 15 15 15 16 24 24 26 140 44 11 10 9.0 8.1 7.0 6.7

e Estimated

## 06893557 BRUSH CREEK AT WARD PARKWAY IN KANSAS CITY, MO

LOCATION.--Lat 39°01'59", long 94°36'19", in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.31, T.49 N., R.33 W. in Jackson County, Hydrologic Unit 10300101, on the downstream side of the right wingwall on Ward Parkway at Shawnee Mission Parkway in Kansas City and 5.4 mi upstream from the Blue River.

DRAINAGE AREA. -- 12.2 mi<sup>2</sup>.

PERIOD OF RECORD--July 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft above National Geodetic Vertical Datum of 1929 (from levels by the U.S. Geological Survey).

 ${\tt REMARKS.--Records\ fair\ except\ for\ estimated\ daily\ discharges,\ which\ are\ poor.\ U.S.G.S.\ satellite\ telemeter\ at\ station.}$ 

		DISCHA	RGE, CUBI	C FEET PE		WATER YE MEAN VA	EAR OCTOBER ALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.0 1.0 1.0 15	1.1 1.2 1.0 1.1	0.40 0.40 0.43 0.69		13 e12 e3.5 e2.7 2.0	1.8 5.6 2.1 2.2 2.7	0.32 0.39 0.38 0.39 0.45	2.5 2.0 1.6 1.4 1.6	1.5 1.2 1.3 14 4.0	0.56 1.4 12 28 3.5	0.62 0.47 0.49 0.48 0.36	0.26 0.23 0.16 0.15 0.27
6 7 8 9 10	3.7 2.2 1.6 1.4 38	1.0 0.87 0.92 1.1 0.86	1.4 0.39 0.36 0.39 0.40	e0.00	1.8 1.6 1.8 1.9	2.0 1.7 1.9 36 1.1	0.51 1.8 45 4.1 0.77	107 49 75 28 6.3	0.97 0.80 0.76 19 2.7	1.9 2.9 1.6 0.53 1.7	0.77 0.49 0.35 0.35 0.53	0.39 0.23 0.54 0.24 0.82
11 12 13 14 15	3.0 1.9 1.6 1.3	0.75 1.0 0.95 0.93 1.3	0.40 37 4.0 0.68 0.53	e0.35 e0.35 e0.20 e0.15 e0.10	0.87 0.83 0.78 0.65 0.61	0.95 0.75 0.90 0.96 0.72		63 66 13 5.4 3.8	30 20 1.9 1.5 1.2	4.5 6.3 1.2 0.54 0.51	1.5 1.8 75 1.4 0.56	0.24 0.07 0.07 4.2 2.9
16 17 18 19 20	4.5 2.1 1.6 1.4 0.97	1.4 1.1 10 3.8 0.50	0.56 0.66 0.66 0.80 1.0	e0.20 e0.10 e0.05 e1.0 e0.70	0.54 0.47 0.50 68 7.2	0.61 0.56 0.57 0.55 0.84	0.45 0.49 0.47 31 127	21 17 2.9 2.1 1.8	0.83 0.71 0.78 0.72 0.66	0.90 0.86 0.56 9.1 1.9	0.44 6.8 2.2 21 7.5	0.25 0.55 2.9 36 1.7
21 22 23 24 25	0.93 1.2 4.9 2.0 1.0	0.48 0.48 16 63 1.7	1.0 1.0 1.1 e0.80 e0.65	0.59 0.42 0.52 0.36 0.24	1.8 1.1 0.91 0.80 0.82	1.4 0.64 0.75 0.82 4.2	240 12 4.7 3.9 2.2	1.5 1.3 19 45 97	0.72 0.65 0.55 0.53 0.50	0.51 0.39 0.44 0.50 0.46	0.59 0.85 e7.0 0.69 0.43	0.50 0.19 0.12 0.19 0.15
26 27 28 29 30 31	0.57 0.57 0.57 0.59 0.64 0.72	0.66 0.44 0.44 0.44 0.44	e0.50 e0.40 e0.30 e0.20 e0.10 e0.10	0.22 0.27 0.34 1.9 56 66	1.1 0.98 1.2 	0.63 0.49 12 0.76 0.41 0.34	3.5 110 9.6 4.2 3.0	4.4 24 3.8 2.5 3.1 1.8	30 3.5 0.79 0.62 2.3	1.9 0.44 14 28 1.1 0.50	0.35 0.28 0.25 0.22 0.22 0.22	0.19 0.17 0.15 0.13 0.16
MEAN MAX MIN IN.	9.39 104 0.57 0.89	3.88 63 0.44 0.35	1.91 37 0.10 0.18	4.20 66 0.00 0.40	4.67 68 0.47 0.40	2.80 36 0.34 0.26	20.3 240 0.32 1.86	21.7 107 1.3 2.05	4.82 30 0.50 0.44	4.15 28 0.39 0.39	4.33 75 0.22 0.41	1.80 36 0.07 0.16
STATIS	TICS OF MO	ONTHLY ME	AN DATA F	OR WATER	YEARS 1998	- 2002,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	28.4 87.6 1999 1.64 2000	9.79 25.5 1999 2.71 2000	4.07 8.84 1999 0.48 2001	4.63 8.00 1999 0.41 2000	8.32 20.6 2001 2.71 2000	7.68 14.3 2001 2.80 2002	22.5 41.8 1999 1.15 2000	18.8 23.2 1999 7.32 2000	26.1 55.0 2001 4.82 2002	6.78 12.8 2000 2.46 1999	6.22 10.3 2000 3.46 1999	8.83 15.0 1999 1.80 2002
SUMMAR	Y STATIST	ICS	FOR	2001 CAI	ENDAR YEAR		FOR 2002 W.	ATER YEAR		WATER YE	ARS 1998	- 2002
LOWEST HIGHES	MEAN T ANNUAL M ANNUAL M T DAILY M DAILY M	EAN EAN		15.2 427 0.10	Jun 6 Dec 30,31		7.02 240 0.00	Apr 21 Jan 1-8		12.7 21.3 6.59 1520 0.00	Jul 1	1999 2000 4 1998 5 1998,
ANNUAL	SEVEN-DAY	Y MINIMUM		0.26	Aug 3		0.00	Jan 1		0.00	Jul 1	8 2002 5 1998, 1 2002
MAXIMU INSTAN ANNUAL 10 PER 50 PER	M PEAK FLO M PEAK STA TANEOUS LO RUNOFF (I CENT EXCEI CENT EXCEI CENT EXCEI	AGE DW FLOW INCHES) EDS EDS		  16.90 38 1.8			4330 44.06 0.00 7.79 15 0.91 0.23	Apr 21 Apr 21 Jan 1-8		4710 50.90 0.00 14.09 25 1.4 0.39	Jun Oct	6 2001 4 1998 8 2002

e Estimated

### 06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO

LOCATION.--Lat 39°02'21", long 94°34'43", in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.29, T.49 N., R.33 W., Jackson County, Hydrologic Unit 10300101, on the left upstream Rockhill Road bridge abutment and 3.7 mi upstream from the Blue River.

DRAINAGE AREA.--17.0  $\min^2$ .

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 799.70 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Geological Survey).

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. U.S.G.S satellite telemeter at station.

		DISCHA	RGE, CUBI	C FEET PE		WATER YE Y MEAN V		ER 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.97 0.57 0.48 21 154	3.0 2.7 3.2 3.4 4.3	7.1 6.0 4.1 2.2 1.5	0.00 0.00 0.00 0.00 e0.00	4.2 2.6	e4.6 e2.2 e5.6		4.6 4.1 4.1	e1.9 e1.5 e2.0 e15 e4.0	0.86 1.4 7.6 25 3.1	e1.5 0.54 0.74 0.63 0.60	0.72 0.64 0.43 0.56 0.70
6 7 8 9 10	13 9.3 6.2 3.8	4.0 3.4 2.9 4.5 5.8	3.1 2.1 2.3 3.8 4.0	e0.00 0.00 0.00 0.00 0.00	2.3 3.9 3.4 2.4 2.8	e4.4 e2.0 e4.5 29	1.8 4.1 52 10 4.6	161 59 104 35 9.7	1.6 1.2 1.1 41 2.3	2.8 2.7 2.3 3.7	0.64 0.43 0.32 0.74	0.79 0.78 0.88 0.64 0.92
11 12 13 14 15	1.6 1.8 2.5 3.0	7.7 6.0 5.7 5.3 4.1	2.4	0.00 0.00 0.00 0.27 0.52	3.2 2.6 2.3 1.9	7.4 2.4 e1.6 e1.0 e0.80	3.6 3.7 2.3 1.7	98 84 21 11 e9.0	36 19 2.0 1.6 1.6	2.4 6.1 2.3 1.7		0.93 0.51 0.76 3.0 2.3
16 17 18 19 20	30 22 13 9.1 6.8	2.6 2.0 7.5 8.1 2.5	2.8 3.3 3.7 3.5 4.4	0.77 0.64 0.62 1.8 e2.3	1.2 0.90 0.75 e70 e13	e0.70 e0.60 e0.60 e0.60 e0.90	e1.4 e1.1 0.67 52 199	e23 e20 e9.0 e7.0 e5.0	1.2 1.1 1.4 1.2		1.4 5.9 2.2 20 5.7	0.64 0.79 2.5 28 1.8
21 22 23 24 25	4.2 3.3 4.8 1.8 2.9	1.0 0.83 14 46 7.1	4.2 e3.0 e2.2 e2.0 e2.0	e2.0 e1.8 e1.9 e1.7 e1.5	e4.0 e2.0 e1.0 e0.90 e0.90	e1.5 e0.70 e0.80 e0.80 e5.5	320 8.5 3.3 2.4 2.0	25 64	1.2 0.94 0.85 0.84 0.69	e0.85 e0.97		1.2 0.56 0.66 0.81 0.83
26 27 28 29 30 31	3.5 5.1 4.5 3.6 2.5 3.3	4.5 5.0 7.7 6.0 6.1	e2.0 e1.0 0.82 0.75 0.42 0.21	e1.4 e1.5 e1.6 e4.2 56	e1.5 e1.2 e1.2 	4.6 2.6 11 2.2 1.3 0.78	3.9 158 11 6.5 4.7	3.8 24 3.5 e3.0 e3.0 e2.5	45 3.5 1.4 1.1 1.9	e15 e30	0.76 0.80 0.69 0.48 0.68	0.89 0.85 0.95 0.99 0.45
MEAN MAX MIN IN.	16.7 154 0.48 1.13	6.23 46 0.83 0.41	3.90 34 0.21 0.26	4.69 65 0.00 0.32	5.41 70 0.75 0.33	3.77 29 0.60 0.26	28.9 320 0.32 1.90	30.6 161 1.7 2.08	6.51 45 0.69 0.43	4.37 30 0.85 0.30	5.34 103 0.32 0.36	1.88 28 0.43 0.12
STATIS	STICS OF M	ONTHLY ME	AN DATA F	OR WATER	YEARS 199	8 - 2002	, BY WATE	R YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	45.5 145 1999 3.45 2000	14.4 41.4 1999 4.91 2001	5.65 10.9 1999 0.76 2001	6.49 11.4 1999 2.93 2000	9.68 18.0 2001 5.41 2002	9.81 18.0 1999 3.77 2002	32.6 69.1 1999 2.65 2000	22.1 30.7 2002 11.7 2000	36.4 73.8 2001 6.51 2002	8.69 17.1 2000 3.08 1999	8.69 11.0 2000 5.34 2002	16.2 39.8 1998 1.88 2002
SUMMAR	RY STATIST	ICS	FOR	2001 CALE	ENDAR YEAR		FOR 2002	WATER YEAR		WATER Y	EARS 1998	- 2002
LOWEST HIGHES	MEAN TANNUAL ANNUAL M TOAILY ME	EAN EAN		18.0 570 0.00	Jun 6 Mar 7		9.89 320 0.00	Apr 21 Jan 1-13		17.5 32.9 9.68 2540 0.00		1999 2000 4 1998 7 2001,
MAXIMU MAXIMU INSTAN ANNUAL 10 PEF 50 PEF	J SEVEN-DA JM PEAK FL JM PEAK ST. VTANEOUS L J. RUNOFF ( RCENT EXCE RCENT EXCE	OW AGE OW FLOW INCHES) EDS EDS		0.41   14.33 35 2.7 0.56	Aug 4		0.00 4070 10.25 0.00 7.89 20 2.3 0.64	Jan 1 Apr 21 Apr 21 Many Days		0.00 21700 21.71 0.00 13.97 29 3.3 0.80	Jan a Oct b Oct Mar	1 2002 1 2002 4 1998 4 1998 Days

e Estimated

Discharge determined by indirect method. From floodmark.

#### 06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

#### WATER-OUALITY RECORDS

PERIOD OF RECORD. -- July 1998 to current year.

PERIOD OF DAILY RECORD. -

WATER TEMPERATURE FROM PRESSURE TRANSDUCER (PT) .-- July 1998 to May 14, 2002.(discontinued)

WATER TEMPERATURE. --July 1998 to current year. pH.--July 1998 to current year. SPECIFIC CONDUCTANCE. --August 1998 to current year. DISSOLVED OXYGEN.--July 1998 to current year. TURBIDITY.--July 1998 to current year.

INSTRUMENTATION.--Water-quality monitor seasonally since August 1998. Electronic data logger with 15 minute recording interval and 4 hour satellite transmission interval. The monitor is not operated during the winter months. Pressure transducer with temperature sensor, July 1998 to May 2002.

MARKS.--The number of missing days of record exceeds 20 percent of the year. The monitor was not operated from Dec. 7 to April 22. Unpublished records prior to October 2000 are available in files of the Sub-district office.

Interruptions in the record are generally due to malfunction or fouling of the sensors, where possible missing record has been estimated. Daily value estimations were based on partial data, inspection of contiguous data, hydrograph comparison, comparison with data from station 06893500, and the best judgment of the hydrographer. Detailed records of the procedures employed for estimating data and/or data shifts for specific periods of record have been included with the station analysis and are kept on file. The manufacturers' specified range for turbidity sensors used is 0 to 1000 NTU. All values beyond this limit may be considered as >1000 NTU. Values >1000 NTU are maintained for continuity of the record. Specific Conductance records were rated either good or excellent except for the following periods: May 6 rated poor; May 15-21 and July 29-August 1 rated poor-estimated. either good or excellent except for the following periods: May 6 rated poor; May 15-21 and July 29-August 1 rated poor-estimated. PH records were rated either good or excellent except for the following periods: June 12-26 rated fair, May 15-21 and July 29-August 1 rated poor-estimated. Water temperature records were rated either good or excellent except for the following periods: May 15-21 and July 29-August 1 rated poor-estimated. Temperature from pressure transducer not rated except for the following period: April 16-17 rated poor-estimated. Dissolved oxygen records were rated poor except for the following periods: October 11-December 7, April 22 - May 5, May 7-12, 22-24, June 5-11, 27 - July 5, August 2-22, September 17-30 rated either good or excellent; May 13-21 and July 29-August 1 rated poor-estimated. Turbidity records were rated excellent except for the following periods: May 12-14, June 12-26 rated poor, May 15-21, June 2-4, July 29-August 1, and August 22-September 16 rated poor-estimated.

EXTREMES FOR PERIOD OF DAILY RECORD.--(more than 20 percent of record missing)

WATER TEMPERATURE FROM PRESSURE TRANSDUCER.--Maximum recorded, 31.5 °C August 3, 2001.

WATER TEMPERATURE, --Maximum recorded, 36.5 °C, Aug. 31, 2000.

pH.--Maximum recorded, 9.8 standard units, Aug. 28, 2001; minimum recorded, 5.5 standard units, Nov. 6, 2000.

SPECIFIC CONDUCTANCE.--Maximum recorded, 1,410 microsiemens per centimeter (µS/cm), July 6-7, 1999; minimum recorded, 84 µS/cm, Aug. 25, 2001.

DISSOLVED OXYGEN. --Maximum recorded, 23.3 mg/L, June 26, 2001; minimum recorded, 0.0 mg/L, several days 1999, July 23, 2002. TURBIDITY.--Maximum recorded, 2,300 NTU, Sept. 13, 1998; minimum recorded, 0.0 NTU, many days 1998-2002.

EXTREMES FOR CURRENT YEAR. -- (more than 20 percent of record missing)

WATER TEMPERATURE FROM PRESSURE TRANSDUCER.--Maximum, 22.2  $^{\circ}$ C, April 18. WATER TEMPERATURE.--Maximum, 34.8  $^{\circ}$ C, July 20.

PH.--Maximum recorded, 9.7 standard units, June 29 and July 7; minimum recorded, 7.0 standard units, several days. SPECIFIC CONDUCTANCE.--Maximum recorded, 910 μS/cm, April 27; minimum recorded, 103 μS/cm, May 25. DISSOLVED OXYGEN.--Maximum recorded, 22.5 mg/L, Oct. 1; minimum recorded, 0.0 mg/L, July 23.

TURBIDITY.--Maximum recorded, 1,500 NTU, Aug. 18; minimum recorded, 0.0 NTU, many days.

WATER TEMPERATURE FROM PT, (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		No	OVEMBER		DE	ECEMBER			JANUARY	7
1 2 3 4 5	19.4 20.2 20.1 20.1 17.7	18.0 18.5 18.6 15.7 12.7	18.6 19.1 19.3 19.4 13.4	14.6 15.1 14.6 14.5 14.5	13.3 14.1 14.0 14.2 14.1	13.8 14.5 14.2 14.3 14.2	5.1 6.1 7.3 8.9 11.5	4.7 4.7 5.6 7.0 8.5	4.9 5.3 6.4 8.1 9.8	5.0 5.0 5.0 5.3 5.3	4.6 4.7 4.7 4.8 5.1	4.8 4.9 4.8 5.1 5.2
6 7 8 9 10	14.1 13.9 15.4 16.3 18.1	12.4 13.0 13.9 15.1 16.2	13.2 13.6 14.5 15.6 17.5	14.5 15.5 15.3 13.7 12.7	14.0 14.3 13.7 12.5 11.7	14.3 14.8 14.6 12.9 12.2	10.8 10.1 9.3 7.9 7.1	9.8 9.3 7.9 7.0 6.4	10.3 9.6 8.5 7.4 6.7	5.2 5.5 5.7 5.9 6.1	5.0 5.1 5.4 5.7 5.9	5.1 5.3 5.5 5.8 6.0
11 12 13 14 15	18.1 17.5 16.8 16.2 15.3	17.2 16.4 16.0 15.0 9.7	17.6 16.8 16.3 15.5 12.5	12.4 11.9 12.0 12.9 14.3	11.4 11.4 11.4 12.0 12.6	12.0 11.6 11.6 12.3 13.4	6.7 7.5 7.4 7.4 6.9	6.0 5.9 7.1 6.9 6.4	6.4 6.6 7.2 7.2 6.7	6.4 6.3 5.8 5.6 5.0	6.1 5.0 5.0 4.0 3.6	6.2 5.8 5.5 4.6 4.2
16 17 18 19 20	10.7 10.5 12.1 12.0 12.9	8.9 9.7 10.5 11.3 11.4	9.7 10.1 11.2 11.6 11.9	14.1 14.0 14.3 14.0 11.8	13.6 13.8 13.9 11.8 10.5	13.8 13.9 14.0 12.7 11.1	7.1 7.1 6.8 6.5 5.5	6.7 6.5 6.2 5.5 4.9	6.8 6.4 6.0 5.2	4.4 4.7 5.0 5.0 5.3	3.6 3.4 3.8 4.0 5.0	4.0 4.0 4.3 4.4 5.1
21 22 23 24 25	13.9 15.1 15.8 16.6 15.3	12.7 13.3 14.4 15.3 12.8	13.0 14.1 15.2 16.0 13.7	10.5 9.9 11.3 11.8 10.8	9.4 9.1 9.7 10.4 10.0	9.8 9.5 10.1 11.4 10.4	5.5 6.0 5.2 3.3 2.7	4.9 5.2 3.3 1.4 1.3	5.2 5.6 4.1 2.3 1.8	5.7 5.9 5.7 5.4 5.5	5.1 5.3 5.1 4.5 4.5	5.3 5.6 5.4 5.0 5.1
26 27 28 29 30 31	12.8 11.7 12.0 11.9 13.0 13.4	11.7 10.5 10.3 11.1 11.9 12.6	12.1 11.0 11.0 11.5 12.3 12.9	10.9 9.8 7.3 5.7 5.4	9.8 7.3 5.7 5.2 5.1	10.4 8.4 6.3 5.4 5.2	3.8 4.1 4.6 4.5 4.7	2.6 2.6 4.1 4.1 4.2 4.3	3.1 3.7 4.5 4.3 4.4 4.6	5.5 6.4 6.3 5.8 5.2 2.8	4.0 4.8 5.7 4.6 0.2 0.5	4.7 5.5 6.0 5.1 4.2 1.8
MONTH	20.2	8.9	14.2	15.5	5.1	11.8	11.5	1.3	6.0	6.4	0.2	5.0

## 06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

WATER TEMPERATURE FROM PT, (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	5.0 3.9 4.3 4.1 4.2	2.8 3.3 3.4 3.2 3.6	3.6 3.8 3.7 4.1	4.4 4.1 6.2 8.0 8.3	2.5 -0.3 -0.5 2.3 5.1	3.5 1.3 2.6 5.1 6.2	14.1 14.0 12.4 10.7 11.6	11.3 12.4 10.2 9.6 9.8	12.6 13.2 10.8 10.0 10.3	17.7 16.3 17.3 17.1 20.5	16.3 15.2 15.2 16.0 17.0	16.9 15.8 16.2 16.5 18.0
6 7 8 9 10	4.4 3.8 4.8 5.4 5.1	3.6 2.7 3.3 4.5 4.1	4.3 3.3 4.0 4.9 4.6	9.0 8.4 11.0 10.9 7.2	4.4 6.2 7.7 6.9 6.0	6.2 7.2 9.4 7.9 6.6	12.6 12.4 11.7 11.9 12.9	10.8 11.5 11.2 10.7 11.3	11.8 11.9 11.4 11.1	20.6 19.5 18.6 18.3 17.4	17.3 18.3 16.8 16.4 15.6	18.5 18.7 17.5 17.4 16.4
11 12 13 14 15	4.8 4.8 5.2 5.5 5.9	3.2 3.8 4.0 4.1 4.7	4.0 4.3 4.6 5.0 5.3	7.1 7.4 8.4 11.3 10.5	6.5 6.5 7.1 8.0 9.4	6.8 7.0 7.7 9.7 9.8	14.3 14.5 15.6 18.1 17.7	12.0 13.7 14.0 14.3 16.7	12.7 14.1 14.7 15.5 17.2	18.6 18.4 16.7 16.6	14.8 15.1 14.0 15.1	15.8 16.9 15.2 15.9
16 17 18 19 20	6.3 6.7 7.1 10.6 10.6	5.0 5.4 6.0 7.0 9.4	5.6 6.1 6.5 8.6 10.0	9.6 9.9 9.6 9.4 10.7	8.3 7.6 9.0 8.8 8.4	8.8 8.5 9.2 9.1 9.3	22.2 22.0 17.4	18.5 17.3 12.2	e17.7 e18.7 19.9 18.6 16.1		  	  
21 22 23 24 25	12.4 13.4 14.9 14.8 10.0	6.3 4.0 4.7 6.8 3.0	9.1 8.5 9.5 10.4 5.9	10.3 7.3 9.3 8.5 7.5	7.2 5.2 5.7 7.5 5.3	8.6 6.4 7.2 8.1 6.3	13.7 14.7 15.0 17.5	10.6 12.9 14.1 14.5 15.4	12.4 13.6 14.5 16.0 16.3	  	  	  
26 27 28 29 30 31	3.0 6.0 7.8 	-0.4 -0.3 1.8 	0.9 2.2 4.2 	7.2 8.5 8.7 12.0 12.0 13.2	4.6 6.4 7.9 8.3 9.3 10.3	5.7 7.3 8.3 9.3 10.3 11.5	16.7 15.1 15.1 14.7 17.8	15.1 12.3 13.3 14.1 14.4	15.8 13.9 14.0 14.3 15.8	   	   	  
MONTH	14.9	-0.4	5.4	13.2	-0.5	7.4			14.2			

e Estimated

WATER TEMPERATURE, (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	21.2 21.0 21.9 20.8 18.1	18.3 18.6 18.9 15.9 13.1	19.6 19.9 20.2 19.9 14.0	15.7 16.3 17.7 17.0 16.8	13.7 14.5 14.4 14.9 14.5	14.7 15.1 15.4 15.5 15.2	7.8 7.6 9.1 12.4 12.6	4.8 4.8 6.7 8.6 11.2	5.9 6.2 7.7 10.2 11.9	  	  	  
6 7 8 9 10	15.5 16.6 16.1 17.3 19.4	12.7 13.4 14.3 15.5 17.0	13.8 14.8 15.2 16.2 18.1	17.7 17.6 16.2 14.0 14.0	14.3 15.4 13.3 12.1 11.8	15.8 16.4 14.9 13.2 12.9	11.5   	10.3	10.9	  		  
11 12 13 14 15	19.3 17.7 17.4 16.5 15.6	17.4 16.7 16.4 15.4 10.1	18.1 17.1 16.8 15.9 12.8	13.6 13.0 13.9 14.9 15.4	11.5 11.3 11.8 12.6 13.6	12.5 12.2 12.7 13.7 14.5	  	  	  	  		
16 17 18 19 20	11.9 14.2 13.0 14.3 15.8	9.4 10.0 11.1 11.7	10.4 11.6 12.0 12.7 13.3	16.4 15.3 14.9 14.3 12.1	13.9 13.9 14.2 11.5 10.2	15.1 14.7 14.6 12.9 11.2	  		  	  		
21 22 23 24 25	16.6 17.6 19.7 18.4 15.6	14.1 15.4 16.6 15.6 13.0	15.2 16.3 17.9 16.9 14.1	10.9 11.8 11.9 12.2 12.6	9.4 9.3 10.2 10.8 10.3	10.3 10.4 10.6 11.8 11.2	  	  	  	  	  	  
26 27 28 29 30 31	13.0 13.1 13.1 14.9 15.6 14.4	11.9 10.8 10.7 11.6 12.6 13.0	12.5 11.7 11.8 12.9 13.6 13.6	12.0 10.2 7.7 5.8 5.9	10.2 7.6 5.8 5.4 5.4	10.9 8.8 6.6 5.6 5.6	  	   	   	   	   	   
MONTH	21.9	9.4	15.1	17.7	5.4	12.5						

## 06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

WATER TEMPERATURE, (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		WAI	LEK IEM	FERMIURE,	(DEGREES	C), WAIE	ik IEAK OC	TOBER 20	01 10 36	FIEMBER 20	02	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1										18.0	16.6	17.3
2										17.8	15.5	16.6
3 4										17.7 20.5	15.5 16.2	16.6 18.0
5										22.3	17.9	19.7
6										20.9	17.7	19.4
7										20.6	18.6	19.5
8 9										19.5 19.3	17.1 16.7	18.4 18.1
10										17.7	15.9	16.8
11										19.1	15.2	16.6
12										18.8	15.4	17.2
13 14										17.9 22.7	14.3 15.5	16.1 18.4
15												e19.3
16												e19.8
17												e19.0
18												e17.8
19 20												e18.0 e18.3
21												
22										22.9	18.4	e18.9 20.0
23							20.9	14.9	17.8	20.6	19.5	19.8
24 25							19.4 17.7	17.1 15.8	18.1 16.8	20.6 20.2	17.1 15.4	19.3 17.4
26 27							17.0 15.4	15.4 12.6	16.1 14.3	22.4 24.4	17.0 18.8	19.6 21.8
28							17.5	13.7	15.3	24.4	21.1	22.5
29 30							20.7 18.4	14.7 16.4	16.9 17.4	26.4 28.6	21.9 23.4	23.9 25.7
31										29.5	24.9	26.9
MONTH												19.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1	29.5	26.1	27.8	30.2	27.9	29.1			e31.8	29.9	26.0	27.8
2	31.0	26.7	28.6	29.1	27.5	28.3	31.3	28.8	30.1	29.3	26.6	27.9
3 4	30.6 28.2	26.6 25.4	28.4 26.7	30.9 29.7	26.9 26.4	28.2 27.6	32.9 32.5	28.6 29.5	30.4 30.9	28.4 28.4	26.8 25.9	27.6 26.9
5	26.5	24.1	24.9	31.3	25.6	28.1	33.8	29.8	31.4	31.0	26.2	27.8
6	26.5	22.8	24.5	32.2	27.4	29.4	31.4	29.1	30.1	31.1	26.9	28.4
7	26.8	23.6	25.2	33.5	28.5	30.3	29.6	27.7	28.7	29.8	27.0	28.4
8 9	27.4 26.4	24.6 24.4	26.0 25.3	33.0 34.1	28.6 29.5	30.8 31.7	28.9 29.8	26.2 26.1	27.6 27.7	29.9 29.4	27.2 27.4	28.6 28.4
10	26.1	23.9	24.9	32.2	29.4	30.8	28.0	26.4	27.2	28.9	27.1	27.9
11	27.0	24.8	25.6	33.3	28.2	30.0	31.0	26.4	28.3	27.3	25.4	26.3
12	31.1	24.6	27.1	30.0	27.8	28.5	28.2	26.6	27.2	26.0	24.2	25.0
13 14	27.8 25.4	25.2 23.5	26.2 24.6	28.0 28.9	26.4 25.9	27.2 27.4	26.9 28.7	22.5 21.9	23.5 24.4	25.4 24.3	23.4 23.6	24.3 24.0
15	26.1	23.4	24.6	29.6	26.4	28.0	28.1	23.6	25.6	25.8	22.8	24.0
16	27.0	23.4	25.1	30.7	27.0	28.8	27.6	25.9	26.8	26.5	22.7	24.2
17	28.4	23.7	25.7	32.4	27.7	29.8	27.3	25.1	25.9	24.8	23.4	23.9
18 19	26.0 28.1	24.1 23.7	24.8 25.6	31.9 34.4	28.6 29.0	30.2 30.4	28.5 27.2	24.4 24.8	25.9 26.0	26.4 24.8	23.3 22.0	24.6 23.1
20	30.0	25.4	27.2	34.8	28.3	31.0	27.0	23.8	25.4	23.5	21.3	22.3
21	30.1	26.3	28.0	33.1	29.2	31.1	27.9	26.0	26.9	24.6	21.6	22.9
22	31.5	26.9	29.1	32.2	29.4	30.6	29.1	26.3	27.5	23.3	21.2	22.1
23 24	30.9 30.8	27.3 27.3	28.9 28.9	30.9 30.8	28.0 27.8	29.3 29.3	30.2 28.5	26.3 26.7	28.2 27.4	21.6 21.0	20.1 19.1	21.0 20.1
25	32.0	27.8	29.7	31.7	27.9	29.8	29.3	26.0	27.4	21.7	19.1	20.1
26	33.4	26.0	29.4	33.3	28.8	30.6	29.8	26.3	27.8	22.5	19.8	21.1
27	32.1	25.1	27.5	31.4	28.9	30.3	28.3	26.5	27.4	23.6	20.2	21.5
28 29	29.3 32.8	25.9 27.5	27.7 29.9	30.9	26.6	29.4 e28.6	28.5 28.0	26.1 26.2	27.2 27.0	23.6 24.4	20.3 21.6	21.7 22.7
30	31.0	28.0	29.9			e30.0	28.0	25.7	26.7	24.4	21.8	23.0
31						e31.6	28.1	25.4	26.7			
MONTH	33.4	22.8	26.9			29.6			27.6	31.1	19.1	24.6

e Estimated

pH, WH, FIELD, (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

		Pπ,	WH, FIELD,	(SIAND	AKD UNII	S), WAIEK	IEAR OCIC	JBER 200	1 10 5551	EMBER 2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	ECEMBER			JANUARY	
1	9.2	7.6	8.5	8.4	7.8	8.1	7.2	7.2	7.2			
2	9.4	7.5	8.5	8.7	7.6	8.1	7.3	7.2	7.2			
3 4	9.2	7.9	8.7	8.9	7.7	8.2	7.3	7.2	7.2			
4 5	8.8 8.4	7.8 7.4	8.4 7.8	8.8 8.5	7.7 7.6	8.1 8.0	7.3 7.4	7.2 7.2	7.3 7.3			
6	7.6	7.2	7.4	8.8	7.8	8.2	7.2	7.2	7.2			
7 8	7.6 7.7	7.2 7.2	7.3 7.4	8.9 8.5	7.7 7.6	8.3 8.1						
9	7.8	7.2	7.5	8.4	7.5	7.9						
10	7.8	7.2	7.5	8.3	7.5	7.8						
11	7.2	7.2	7.2	8.6	7.5	7.9						
12	7.2	7.1	7.2	8.1	7.5	7.7						
13 14	7.3 7.4	7.2 7.2	7.2 7.3	8.4 8.4	7.6 7.6	7.9 7.9						
15	7.4	7.2	7.5	8.3	7.5	7.8						
16 17	7.6	7.0	7.4	7.7	7.5 7.5	7.6						
18	$7.4 \\ 7.4$	7.0 7.2	7.2 7.3	7.9 8.0	7.5	7.6 7.7						
19	7.4	7.0	7.2	8.3	7.6	8.0						
20	7.6	7.1	7.3	8.2	7.5	7.8						
21	7.6	7.1	7.4	8.3	7.6	8.0						
22	7.8	7.2	7.6	8.4	7.6	8.0						
23	7.6	7.3	7.4	8.0	7.8	7.9						
24 25	7.6 7.6	$7.2 \\ 7.4$	7.4 7.5	7.9 7.8	7.5 7.3	7.8 7.5						
26	7.7	7.3	7.5	7.3	7.3	7.3						
27 28	7.7 7.9	7.4 7.5	7.5 7.7	7.3 7.3	7.3 7.2	7.3 7.3						
29	7.9	7.6	7.7	7.2	7.2	7.2						
30	8.3	7.5	7.8	7.2	7.2	7.2						
31	8.3	7.8	8.0									
MONTH	9.4	7.0	7.6	8.9	7.2	7.8						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY						MEAN			MEAN	MAX		MEAN
DAY		MIN FEBRUARY			MIN MARCH	MEAN		MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1		FEBRUARY			MARCH			APRIL		7.7	MAY 7.4	7.5
1 2		FEBRUARY			MARCH			APRIL		7.7 7.8	MAY 7.4 7.6	7.5 7.7
1		FEBRUARY			MARCH			APRIL		7.7	MAY 7.4 7.6 7.6	7.5 7.7 7.8
1 2 3	 	FEBRUARY  	 		MARCH		 	APRIL		7.7 7.8 8.0	MAY 7.4 7.6	7.5 7.7
1 2 3 4 5	  	FEBRUARY   	   		MARCH	  	  	APRIL	  	7.7 7.8 8.0 8.0	MAY 7.4 7.6 7.6 7.7	7.5 7.7 7.8 7.9 8.1
1 2 3 4	  	FEBRUARY   	  		MARCH	  	  	APRIL	  	7.7 7.8 8.0 8.0	MAY 7.4 7.6 7.6 7.7	7.5 7.7 7.8 7.9 8.1
1 2 3 4 5		FEBRUARY	   	  	MARCH			APRIL	  	7.7 7.8 8.0 8.0 8.3 8.2 7.7	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.5
1 2 3 4 5 6 7 8 9		FEBRUARY	   		MARCH		    	APRIL	   	7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.5
1 2 3 4 5		FEBRUARY	   	  	MARCH			APRIL	  	7.7 7.8 8.0 8.0 8.3 8.2 7.7	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.5
1 2 3 4 5 6 7 8 9 10		FEBRUARY			MARCH			APRIL	    	7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.3	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.5 7.4 7.2
1 2 3 4 5 6 7 8 9 10		FEBRUARY	    		MARCH	   		APRIL	    	7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.3	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.4 7.2
1 2 3 4 5 6 7 8 9 10		FEBRUARY			MARCH			APRIL	    	7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.3	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.2 7.3	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.5 7.4 7.2
1 2 3 4 5 6 7 8 9 10		FEBRUARY	     		MARCH			APRIL	     	7.7 7.8 8.0 8.3 8.2 7.8 7.7 7.6 7.3	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.4 7.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH			APRIL		7.7 7.8 8.0 8.3 8.2 7.8 7.7 7.6 7.3 7.5 7.6 7.6	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5	7.5 7.7 7.8 8.1 7.6 7.5 7.4 7.2 7.3 7.4 7.5 7.5 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13		FEBRUARY			MARCH			APRIL		7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.6 7.3 7.5 7.5 7.6	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.5 7.4 7.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH			APRIL		7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.3 7.5 7.6 7.6 7.6	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5	7.5 7.7 7.8 8.1 7.6 7.5 7.5 7.4 7.5 7.5 e7.6 e7.7 e7.9 e8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY			MARCH			APRIL		7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.3 7.5 7.5 7.6 7.6	MAY 7.4 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.4 7.2 7.3 7.4 7.5 e7.6 e7.7 e7.9 e8.0 e8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH			APRIL		7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.3 7.5 7.6 7.6 7.6	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5	7.5 7.7 7.8 8.1 7.6 7.5 7.5 7.4 7.5 7.5 e7.6 e7.7 e7.9 e8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUARY			MARCH			APRIL		7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.6 7.3 7.5 7.6 7.6	MAY 7.4 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.4 7.2 7.3 7.4 7.5 e7.6 e7.7 e7.9 e8.0 e8.2 e8.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY			MARCH			APRIL		7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.3 7.5 7.6 7.6 9.1	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5 8.4	7.5 7.7 7.8 8.1 7.6 7.5 7.5 7.4 7.2 7.3 7.4 7.5 e7.6 e7.7 e8.0 e8.0 e8.3 e8.6 8.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUARY			MARCH			APRIL		7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.6 7.3 7.5 7.6 7.6	MAY 7.4 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.4 7.2 7.3 7.4 7.5 e7.6 e7.7 e7.9 e8.0 e8.2 e8.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY			MARCH		        	APRIL	        	7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 8.8	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5 8.4 7.7	7.5 7.7 7.8 8.1 7.6 7.5 7.5 7.4 7.5 7.5 7.5 67.6 e7.7 e8.0 e8.2 e8.3 e8.6 8.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		FEBRUARY			MARCH		         	APRIL	        7.9 7.8	7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.3 7.5 7.6 7.6 7.6 7.6 7.7 8.1	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5 8.4 7.7 7.3 7.4	7.5 7.7 7.8 8.1 7.6 7.5 7.5 7.4 7.2 7.3 7.4 7.5 7.5 67.6 e7.7 e8.0 e8.2 e8.3 e8.6 8.8 4 7.5 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		FEBRUARY			MARCH		         8.0 8.0 7.6	APRIL	        	7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.6 7.3 7.5 7.6 7.6 9.1 8.8 7.7	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5 8.4 7.7 7.3 7.4 7.4 7.3	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.5 7.4 7.2 7.3 7.4 7.5 e7.6 e7.7 e8.0 e8.0 e8.3 e8.6 8.8 8.4 7.5 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY			MARCH		         8.0 8.0 7.6	APRIL	         	7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.7 7.6 7.3 7.5 7.6 7.6 7.6 7.7 8.8 7.7 8.1 7.6 7.8 7.8	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5 8.4 7.7 7.3 7.4 7.4 7.3 7.5	7.5 7.7 7.8 8.1 7.6 7.5 7.5 7.4 7.2 7.3 7.4 7.5 7.5 6.6 e7.7 e8.0 e8.0 e8.2 e8.3 e8.6 8.8 8.4 7.5 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		FEBRUARY			MARCH		         8.0 8.0 7.6	APRIL		7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 8.1 7.6 7.8 8.1	MAY 7.4 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5 8.4 7.7 7.3 7.4 7.4 7.3 7.5 7.4	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.4 7.2 7.3 7.4 7.5 e7.6 e7.7 e7.9 e8.2 e8.3 e8.6 8.8 8.8 8.4 7.5 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY			MARCH		         8.0 8.0 7.6	APRIL	         	7.7 7.8 8.0 8.3 8.2 7.8 7.7 7.6 7.3 7.5 7.6 7.6 7.6 7.7 8.8 7.7 7.6 7.7 7.7	MAY 7.4 7.6 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5 8.4 7.7 7.3 7.4 7.4 7.3 7.5	7.5 7.7 7.8 8.1 7.6 7.5 7.5 7.4 7.2 7.3 7.4 7.5 7.5 6.6 8.0 8.0 8.2 8.4 7.5 7.6 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		FEBRUARY			MARCH		         8.0 8.0 7.6 7.8 8.2 7.8 7.6	APRIL	         	7.7 7.8 8.0 8.0 8.3 8.2 7.8 7.6 7.6 7.6 7.6 9.1 8.8 7.7 8.1 7.6 7.8 8.1 8.9	MAY 7.4 7.6 7.7 7.9 7.5 7.4 7.3 7.2 7.1 7.1 7.2 7.3 7.5 8.4 7.7 7.3 7.4 7.3 7.5 8.4 7.7 7.3 7.6	7.5 7.7 7.8 7.9 8.1 7.6 7.5 7.5 7.4 7.5 e7.6 e7.7 e8.0 e8.0 e8.3 e8.6 8.8 8.4 7.5 7.6 7.6 7.7

## 06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

pH, WH, FIELD, (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		I	AUGUST		5	SEPTEMBE	R
1 2 3 4 5	8.7 8.3 8.2 7.7 7.6	7.6 7.5 7.4 7.4 7.3	8.1 7.9 7.7 7.5 7.4	9.1 8.7 7.8 7.7 8.0	7.6 7.2 7.2 7.1 7.0	8.6 7.6 7.4 7.3 7.3	8.4 8.0 8.3 8.4	7.2 7.2 7.3 7.2	e8.5 7.6 7.5 7.7	8.5 8.5 8.0 8.0	7.7 7.8 7.7 7.6 7.6	8.1 8.1 7.9 7.7 7.9
6 7 8 9 10	7.6 7.7 8.0 7.8 7.2	7.3 7.3 7.4 7.1 7.0	7.4 7.5 7.7 7.5 7.1	9.3 9.7 9.5 9.3 8.9	7.1 8.6 8.4 7.7 7.3	8.1 9.2 9.1 8.8 8.4	7.8 8.0 8.5 8.4 8.3	7.3 7.2 7.3 7.5 7.4	7.5 7.5 7.8 7.9 7.8	8.6 8.8 8.7 8.5 8.6	7.7 7.8 7.8 7.8 7.7	8.0 8.2 8.2 8.1 8.0
11 12 13 14 15	7.5 7.7 8.6 8.3 8.9	7.1 7.2 7.2 7.1 7.2	7.2 7.4 7.5 7.4 7.9	8.6 8.0 8.3 9.0 9.3	7.0 7.2 7.2 7.3 7.7	7.6 7.5 7.6 8.1 8.8	8.4 7.4 7.9 7.2 7.6	7.3 7.3 7.2 7.1 7.1	7.7 7.3 7.4 7.1 7.3	8.7 8.9 8.8 8.2 8.5	7.8 7.9 8.1 7.8 7.8	8.1 8.2 8.3 8.0 7.9
16 17 18 19 20	9.3 9.3 9.2 9.2 9.3	7.5 7.8 7.9 7.6 8.0	8.5 8.7 8.6 8.5 8.7	9.1 9.1 9.1 8.9 8.9	8.3 7.9 8.1 7.4 7.4	8.8 8.7 8.7 8.4 8.1	8.8 8.8 8.1 7.8 7.6	7.1 7.1 7.1 7.2 7.1	7.8 7.6 7.4 7.5 7.2	8.8 8.6 8.7 8.0 7.4	7.8 7.5 7.6 7.2 7.2	8.1 8.1 8.1 7.5 7.2
21 22 23 24 25	9.1 9.1 9.2 9.1 9.2	8.0 8.0 7.9 8.1 8.0	8.6 8.6 8.6 8.6	8.8 8.5 8.2 8.2 7.8	8.0 7.4 7.3 7.3 7.4	8.6 8.0 7.6 7.6 7.6	7.7 8.3 8.6 7.7 8.3	7.1 7.2 7.2 7.2 7.2	7.3 7.5 7.7 7.4 7.6	7.5 7.6 7.9 8.4 8.6	7.1 7.2 7.3 7.5 7.6	7.3 7.3 7.5 7.8 8.1
26 27 28 29 30 31	8.9 7.4 7.4 9.7 9.4	7.4 7.0 7.0 7.1 7.8	8.3 7.2 7.2 8.2 8.9	7.9 8.6 8.5 	7.4 7.4 7.2 	7.6 7.9 7.8 e7.2 e7.3 e8.2	8.6 8.5 8.2 8.1 8.8 9.0	7.4 7.5 7.4 7.5 7.7	8.0 7.9 7.7 7.6 7.9 8.2	9.2 9.2 9.0 8.9 8.7	8.0 8.4 8.2 8.3 8.1	8.6 8.8 8.6 8.5
MONTH	9.7	7.0	8.0			8.0			7.6	9.2	7.1	8.0

e Estimated

SPECIFIC CONDUCTANCE, in  $\mu s/cm$  @  $25^{\circ}C$  , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	
1	393	331	375	640	568	590	234	226	230			
2	381	338	363	609	586	595	241	232	237			
3	370	347	360	617	574	603	259	240	245			
4	391	215	372	626	597	616	274	252	260			
5	411	124	186	638	616	627	294	263	280			
6	212	190	198	662	628	646	308	269	295			
7	225	209	216	662	626	648						
8	249	225	234	659	636	652						
9	261	242	250	669	621	657						
10	391	180	327	682	652	671						
11	357	338	349	692	665	682						
12	340	331	336	695	654	687						
13	335	329	333	706	680	700						
14	333	321	330	714	694	707						
15	339	115	238	721	659	711						
16	180	140	162	725	668	719						
17	212	180	189	731	721	725						
18	226	204	214	737	719	730						
19	250	223	232	763	711	750						
20	273	243	257	763	756	759						
0.1	005	050	0.00	7.00	E 0.4	756						
21	295	253	278	768	734	756						
22	329	288	304	773	764	768						
23	385	303	341	770	564	763						
24	413	374	397	689	181	265						
25	452	402	432	196	182	188						
26	477	447	461	194	188	191						
27	503	463	480	202	193	197						
28	511	462	494	211	202	206						
29	532	507	522	221	211	216						
30	562	526	537	226	218	221						
31	592	551	566									
MONTH	592	115	333	773	181	575						

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

SPECIFIC CONDUCTANCE, in  $\mu \text{s/cm}$  @  $25^{\circ}\text{C}\text{,}$  WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	FEBRUARY			MARCH			APRIL			MAY	
1										689	633	662
2										718	688	701
3										753	717	738
4										783	753	765
5										799	524	788
6										748	162	266
7										399	157	320
8										483	228	313
9										586	372	442
10										467	369	410
11										685	179	496
12										441	242	377
13										692	441	579
14										804	692	756
15												e814
16												e686
17												e560
18												e440
19												e444
20												e451
21												e454
22										457	380	425
23							820	763	791	584	266	429
24							854	817	841	582	195	529
25							879	853	864	375	103	242
26							901	879	893	440	373	410
27							910	128	501	567	334	500
28							446	276	370	505	428	461
29							568	438	485	494	474	488
30							635	563	601	499	456	487
31										484	390	454
MONTH												512
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN			MEAN	MAX		
DAY	MAX	MIN JUNE	MEAN	MAX	MIN	MEAN		MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	
		JUNE			JULY		1	AUGUST			SEPTEMBE	R
1	464	JUNE 413	450	363	JULY 342	356		AUGUST	e374	415	SEPTEMBE	R 402
		JUNE			JULY		1	AUGUST			SEPTEMBE	R
1 2 3 4	464 499 516 592	JUNE 413 449 498 516	450 478 506 539	363 379 399 514	JULY 342 341 356 257	356 372 382 394	 405 418 425	AUGUST 386 404 390	e374 398 410 417	415 424 435 445	385 400 414 428	402 414 423 436
1 2 3	464 499 516	JUNE 413 449 498	450 478 506	363 379 399	JULY 342 341 356	356 372 382	 405 418	AUGUST 386 404	e374 398 410	415 424 435	385 400 414	402 414 423
1 2 3 4 5	464 499 516 592 684	JUNE 413 449 498 516 592	450 478 506 539 640	363 379 399 514 260	JULY 342 341 356 257 220	356 372 382 394 240	405 418 425 432	AUGUST 386 404 390 403	e374 398 410 417 426	415 424 435 445 451	385 400 414 428 420	402 414 423 436 441
1 2 3 4 5	464 499 516 592 684	JUNE 413 449 498 516 592 678	450 478 506 539 640	363 379 399 514 260	JULY 342 341 356 257 220 203	356 372 382 394 240	405 418 425 432 457	AUGUST 386 404 390 403	e374 398 410 417 426	415 424 435 445 451	385 400 414 428 420 448	402 414 423 436 441 455
1 2 3 4 5	464 499 516 592 684	JUNE 413 449 498 516 592	450 478 506 539 640	363 379 399 514 260	JULY 342 341 356 257 220	356 372 382 394 240	405 418 425 432	AUGUST 386 404 390 403	e374 398 410 417 426	415 424 435 445 451	385 400 414 428 420	402 414 423 436 441
1 2 3 4 5 6 7 8 9	464 499 516 592 684 695 683 670 651	JUNE 413 449 498 516 592 678 666 647 204	450 478 506 539 640 687 678 660 480	363 379 399 514 260 221 227 241 274	JULY  342 341 356 257 220  203 196 222 229	356 372 382 394 240 215 217 232 261	405 418 425 432 457 463 458 457	AUGUST 386 404 390 403 403 451 445 450	e374 398 410 417 426 444 458 452 454	415 424 435 445 451 462 466 479 493	385 400 414 428 420 448 442 463 474	402 414 423 436 441 455 459 469 480
1 2 3 4 5	464 499 516 592 684 695 683 670	JUNE 413 449 498 516 592 678 666 647	450 478 506 539 640 687 678 660	363 379 399 514 260 221 227 241	JULY  342 341 356 257 220  203 196 222	356 372 382 394 240 215 217 232	405 418 425 432 457 463 458	AUGUST 386 404 390 403 403 451 445	e374 398 410 417 426 444 458 452	415 424 435 445 451 462 466 479	385 400 414 428 420 448 442 463	402 414 423 436 441 455 459 469
1 2 3 4 5 6 7 8 9	464 499 516 592 684 695 683 670 651 309	JUNE 413 449 498 516 592 678 666 647 204 221	450 478 506 539 640 687 678 660 480 268	363 379 399 514 260 221 227 241 274 303	JULY  342 341 356 257 220 203 196 222 229 268	356 372 382 394 240 215 217 232 261 284	405 418 425 432 457 463 458 457 464	AUGUST 386 404 390 403 403 451 445 450 455	e374 398 410 417 426 444 458 452 454 458	415 424 435 445 451 462 466 479 493 503	385 400 414 428 420 448 442 463 474 487	402 414 423 436 441 455 459 469 480 493
1 2 3 4 5 6 7 8 9	464 499 516 592 684 695 683 670 651	JUNE 413 449 498 516 592 678 666 647 204 221 198	450 478 506 539 640 687 678 660 480 268	363 379 399 514 260 221 227 241 274 303	JULY  342 341 356 257 220 203 196 222 229 268 300	356 372 382 394 240 215 217 232 261 284	405 418 425 432 457 463 458 457	AUGUST 386 404 390 403 403 451 445 450 455	e374 398 410 417 426 444 458 452 454	415 424 435 445 451 462 466 479 493 503	385 400 414 428 420 448 442 463 474	402 414 423 436 441 455 459 469 480 493
1 2 3 4 5 6 7 8 9 10	464 499 516 592 684 695 683 670 651 309	JUNE 413 449 498 516 592 678 666 647 204 221	450 478 506 539 640 687 678 660 480 268	363 379 399 514 260 221 227 241 274 303	JULY  342 341 356 257 220 203 196 222 229 268	356 372 382 394 240 215 217 232 261 284	405 418 425 432 457 463 458 457 464	AUGUST 386 404 390 403 403 451 445 450 455	e374 398 410 417 426 444 458 452 454 458	415 424 435 445 451 462 466 479 493 503	385 400 414 428 420 448 442 463 474 487	402 414 423 436 441 455 459 469 480 493
1 2 3 4 5 6 7 8 9 10 11 12 13 14	464 499 516 592 684 695 683 670 651 309 373 311 213 250	JUNE 413 4498 516 592 678 666 647 204 221 198 163 173 213	450 478 506 539 640 687 678 660 480 268 328 181 192 230	363 379 399 514 260 221 227 241 274 303 325 403 437 459	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433	356 372 382 394 240 215 217 232 261 284 309 382 416 442	405 418 425 432 457 463 457 464 470 449 451 212	AUGUST 386 404 390 403 403 451 445 450 455 433 433 136 178	e374 398 410 417 426 444 458 452 454 458 464 445 200 196	415 424 435 445 451 462 466 479 493 503 513 520 530 569	385 400 414 428 420 448 442 463 474 487 497 507 518 524	402 414 423 436 441 455 459 469 480 493 505 514 523 536
1 2 3 4 5 6 7 8 9 10 11 12 13	464 499 516 592 684 695 683 670 651 309 373 311 213	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173	450 478 506 539 640 687 678 660 480 268 328 181 192	363 379 399 514 260 221 227 241 274 303 325 403 437	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401	356 372 382 394 240 215 217 232 261 284 309 382 416	405 418 425 432 457 463 458 457 464 470 449 451	AUGUST 386 404 403 403 445 450 455 433 433 136	e374 398 410 417 426 444 458 452 454 458	415 424 435 445 451 462 466 479 493 503 513 520 530	385 400 414 428 420 448 442 463 474 487 497 507 518	402 414 423 436 436 441 455 459 469 480 493 505 514 523
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 213 246	450 478 506 539 640 687 678 660 480 268 328 181 192 230 268	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446	405 418 425 432 457 463 458 457 464 470 449 451 212 229	AUGUST 386 404 403 403 451 445 450 455 433 136 178 210	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281	JUNE 413 4498 516 592 678 666 647 204 221 198 163 173 213 246 270	450 478 506 539 640 687 678 660 480 268 328 181 192 230 268	363 379 399 514 260 221 227 241 274 303 325 403 457 459	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446	405 418 425 432 457 463 458 457 464 470 449 451 212 229	AUGUST 386 404 404 390 403 403 451 445 450 455 433 433 136 178 210	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218	415 424 435 445 451 462 466 479 493 503 513 520 569 568	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554	402 414 423 436 441 455 459 469 480 493 505 514 526 559
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 213 246	450 478 506 539 640 687 678 660 480 268 328 181 192 230 268	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446	405 418 425 432 457 463 458 457 464 470 449 451 212 229	AUGUST 386 404 403 403 451 445 450 455 433 136 178 210	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333	JUNE 413 4498 516 592 678 666 647 204 221 198 163 173 213 246 270 237 282 286	450 478 539 640 687 678 660 480 268 328 181 192 230 268 284 284 307 325	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 441 463	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460	AUGUST  386 404 404 390 403 403 451 445 450 455  433 433 136 178 210 222 237 305 252	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617 683	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 587 417	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 598 524
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 213 246 270 237 282	450 478 506 539 640 687 678 660 480 268 328 181 192 230 268 284 284	363 379 399 399 514 260 221 227 241 274 303 325 403 437 459 457	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 441	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338	AUGUST 386 404 403 403 451 445 450 455 433 136 178 210 222 237 305	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 588
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333 346	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 213 246 270 237 282 286 308	450 478 506 539 640 687 678 660 480 268 328 181 192 230 268 284 307 325 337	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457 462 473 497 507	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 441 463 473	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422	AUGUST  386 404 403 403 451 445 450 455 433 136 178 210 222 237 305 252 279	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617 683 419	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 587 417 337	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 598 524 373
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333 346	JUNE 413 4498 498 516 592 678 666 647 204 221 198 163 173 213 246 270 237 282 286 308	450 478 539 640 687 678 660 480 268 328 181 192 230 268 284 284 307 325 337	363 379 514 260 221 227 241 274 303 325 403 437 459 457 455 462 473 497 507	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 441 463 473	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422	AUGUST  386 404 404 390 403 403 451 445 450 455  433 433 136 178 210 222 237 305 252 279	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321 330	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617 683 419	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 57 582 417 337	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 598 524 373
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333 346	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 213 246 270 237 282 286 308	450 478 506 539 640 687 678 660 480 268 328 181 192 230 268 284 307 325 337	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457 462 473 497 507	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 441 463 473	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422	AUGUST  386 404 403 403 451 445 450 455 433 136 178 210 222 237 305 252 279	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617 683 419	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 587 417 337	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 598 524 373
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333 346	JUNE 413 4498 498 516 592 678 6666 647 204 221 198 163 173 213 246 270 237 282 286 308 342 370 380 402	450 478 539 640 687 678 660 480 268 328 181 192 230 268 284 284 307 325 337 359 345 416	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457 455 462 473 497 507 512 531 535	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 441 463 473  493 501 502 531	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 527 534	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422 337 341 343 328	AUGUST  386 404 404 390 403 403 445 445 450 455  433 136 178 210 222 237 305 252 279 323 331 282 307	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321 330 336 311 315	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617 683 419 346 353 361 368	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 57 582 417 337 336 343 351 361	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 598 524 373 342 350 355 365
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333 346 381 396 415	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 213 246 270 237 282 286 308 342 370 380	450 478 506 539 640 687 678 660 480 268 328 181 192 230 268 284 307 325 337	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457 455 462 473 497 507	JULY  342 341 356 257 220  203 196 222 229 268  300 322 401 433 427  433 444 441 463 473	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 527	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422	AUGUST  386 404 403 403 451 445 450 455 433 136 178 210 222 237 305 252 279 323 331 282	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321 330 336 311	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 57 617 683 419 346 353 361	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 587 417 337	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 598 524 373 342 350 355
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	464 499 516 592 684 695 683 670 309 373 311 213 250 281 292 307 318 333 346 381 396 415 434 449	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 213 246 270 237 282 286 308 342 370 380 402 427	450 478 506 539 640 687 678 660 480 268 328 181 192 230 268 284 2307 325 337 359 385 394 416 436	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457 455 462 473 497 507 512 531 535 539 552	JULY  342 341 356 257 220  203 196 222 229 268  300 322 401 433 427  433 444 441 463 473  493 501 502 531 521	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 527 534 540	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422 337 341 343 328 350	AUGUST  386 404 403 403 451 445 450 455  433 136 178 210  222 237 305 252 279 323 331 282 307 327	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321 330 336 311 315 336	415 424 435 451 462 466 479 493 503 513 520 530 569 568 582 57 617 683 419 346 353 361 368 369	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 782 587 417 337 336 343 351 361 366	402 414 423 436 441 455 459 480 493 505 514 523 536 559 567 586 598 524 373 342 350 355 365 368
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333 346 415 434 449	JUNE 413 4498 498 516 592 678 6666 647 204 221 198 163 173 213 246 270 237 282 286 308 342 370 380 402 427 187	450 478 539 640 687 678 660 480 268 328 181 192 230 268 284 284 325 337 325 337 359 344 416 436	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457 455 462 473 497 507 512 531 539 552	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 441 463 473 493 501 502 531 521	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 534 540	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422 337 341 343 350 359	AUGUST  386 404 404 390 403 403 445 445 450 455  433 136 178 210 222 237 305 252 279 323 331 282 307 327	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321 330 336 311 315 336 351	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617 683 419 346 353 361 368 369 373	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 57 582 417 337 336 343 351 361 366	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 586 524 373 342 350 355 368 368
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	464 499 516 592 684 695 683 670 309 373 311 213 250 281 292 307 318 333 346 381 396 415 434 449	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 213 246 270 237 282 286 308 342 370 380 402 427	450 478 506 539 640 687 678 660 480 268 328 181 192 230 268 284 2307 325 337 359 385 394 416 436	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457 455 462 473 497 507 512 531 535 539 552	JULY  342 341 356 257 220  203 196 222 229 268  300 322 401 433 427  433 444 441 463 473  493 501 502 531 521	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 527 534 540	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422 337 341 343 328 350	AUGUST  386 404 403 403 451 445 450 455  433 136 178 210  222 237 305 252 279 323 331 282 307 327	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321 330 336 311 315 336	415 424 435 451 462 466 479 493 503 513 520 530 569 568 582 57 617 683 419 346 353 361 368 369	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 782 587 417 337 336 343 351 361 366	402 414 423 436 441 455 459 480 493 505 514 523 536 559 567 586 598 524 373 342 350 355 365 368
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333 346 415 434 449 455 359 355 354	JUNE 413 4498 498 516 592 678 6666 647 204 221 198 163 173 246 270 237 282 286 308 342 370 380 402 427 187 336 317 336 317 316	450 478 539 640 687 678 660 480 268 328 181 192 230 268 284 284 325 337 325 337 359 345 416 436	363 379 379 514 260 221 227 241 274 303 325 403 437 459 457 455 462 473 497 507 512 531 539 552 554 555 561	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 411 463 473  493 501 502 531 521  543 546 219	356 372 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 534 540 549 549 549 549 549 549 549 549 540 540 540 540 540 540 540 540 540 540	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422 337 341 343 350 359 381 392 401	AUGUST  386 404 404 390 403 403 445 445 450 455  433 136 178 210 222 237 305 252 279 323 331 282 279 323 331 282 307 327 345 355 374 388	e374 398 410 417 426 444 458 452 454 458 464 4455 200 196 218 230 2666 316 405 321 330 336 311 315 336 351 367 383 394	415 424 435 445 451 462 466 479 493 503 513 520 569 568 582 592 617 683 419 346 353 361 368 369 377 370 366	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 587 417 337 336 343 351 361 366 362 359 358 355	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 586 524 373 342 350 355 368 368 368 368 368 368 368
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	464 499 516 592 684 695 683 670 651 309 373 311 213 3250 281 292 307 318 333 346 381 396 415 434 449	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 246 270 237 282 86 308 342 370 380 402 427 187 336 317 316 308	450 478 539 640 687 678 660 480 268 328 181 192 230 268 284 230 268 284 337 337 359 345 345 339	363 379 399 514 260 221 227 241 274 303 325 403 437 457 455 462 473 497 507 512 531 535 539 552	JULY  342 341 356 257 220  203 196 222 229 268  300 322 401 433 427  433 444 441 463 473  493 501 502 531 521  543 546 219	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 527 534 540 549 552 482 482 483 6375	405 418 425 432 457 463 457 464 470 449 451 212 229 242 311 338 460 422 337 341 343 350 359 381 392 401 415	AUGUST  386 404 390 403 403 451 445 450 455  433 136 178 210  222 237 305 252 279  323 331 282 307 327  345 355 374 388 396	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321 330 336 311 315 336 351 367 383 394 402	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617 683 419 346 353 361 368 369 377 370 366 366 387	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 587 417 337 336 343 351 366 362 359 358 355 359	402 414 423 436 441 455 459 469 469 480 493 505 514 523 536 536 536 598 524 373 342 350 355 368 368 368 368 368 368 368 374
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333 346 415 434 449 455 359 355 354	JUNE 413 4498 498 516 592 678 6666 647 204 221 198 163 173 246 270 237 282 286 308 342 370 380 402 427 187 336 317 336 317 316	450 478 539 640 687 678 660 480 268 328 181 192 230 268 284 284 325 337 325 337 359 345 416 436	363 379 379 514 260 221 227 241 274 303 325 403 437 459 457 455 462 473 497 507 512 531 539 552 554 555 561	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 411 463 473  493 501 502 531 521  543 546 219	356 372 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 534 540 549 549 549 549 549 549 549 549 540 540 540 540 540 540 540 540 540 540	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422 337 341 343 350 359 381 392 401	AUGUST  386 404 404 390 403 403 445 445 450 455  433 136 178 210 222 237 305 252 279 323 331 282 279 323 331 282 307 327 345 355 374 388	e374 398 410 417 426 444 458 452 454 458 464 4455 200 196 218 230 2666 316 405 321 330 336 311 315 336 351 367 383 394	415 424 435 445 451 462 466 479 493 503 513 520 569 568 582 592 617 683 419 346 353 361 368 369 377 370 366	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 587 417 337 336 343 351 361 366 362 359 358 355	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 586 524 373 342 350 355 368 368 368 368 368 368 368
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	464 499 516 592 684 695 683 670 651 309 373 311 213 250 281 292 307 318 333 346 415 434 449 455 359 355 354 349	JUNE 413 4498 498 516 592 678 6666 647 204 221 198 163 173 213 246 270 237 282 286 308 342 370 380 402 427 187 336 316 308	450 478 539 640 687 678 660 480 268 328 181 192 230 268 284 284 307 325 337 359 345 416 436 427 345 345 345 345 345	363 379 399 514 260 221 227 241 274 303 325 403 437 457 455 462 473 497 507 512 531 535 539 552	JULY  342 341 356 257 220  203 196 222 229 268  300 322 401 433 427  433 444 441 463 473  493 501 502 531 521  543 546 219	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 534 540 549 548 549 548 549 548 549 549 549 549 549 549 549 549 549 549	405 418 425 432 457 463 457 464 470 449 451 212 229 242 311 338 460 422 337 341 343 350 359 381 392 401 415	AUGUST  386 404 390 403 403 451 445 450 455  433 136 178 210  222 237 305 252 279  323 331 282 307 327  345 355 374 388 396	e374 398 410 417 426 444 458 452 454 458 464 4455 200 196 218 230 2666 316 405 321 330 336 311 315 336 351 367 383 394 402 407	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617 683 419 346 353 361 368 369 377 370 366 387 	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 587 417 337 336 343 351 366 362 359 358 355 359	402 414 423 436 441 455 459 469 480 493 505 514 523 536 559 567 586 598 524 373 342 350 355 368 368 368 368 368 368 368 368 369 374
1 2 2 3 4 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	464 499 516 592 684 695 683 670 651 309 373 311 213 3250 281 292 307 318 333 346 381 396 415 434 449	JUNE 413 449 498 516 592 678 666 647 204 221 198 163 173 246 270 237 282 86 308 342 370 380 402 427 187 336 317 316 308	450 478 539 640 687 678 660 480 268 328 181 192 230 268 284 230 268 284 337 337 359 345 345 339	363 379 399 514 260 221 227 241 274 303 325 403 437 459 457 452 473 497 507 512 531 535 539 552 554 555 561 	JULY  342 341 356 257 220  203 196 222 229 268 300 322 401 433 427  433 444 441 463 473  493 501 502 531 521  543 546 219	356 372 382 394 240 215 217 232 261 284 309 382 416 442 446 443 456 463 473 499 504 517 527 534 540 549 552 482 482 483 6375	405 418 425 432 457 463 458 457 464 470 449 451 212 229 242 311 338 460 422 337 341 343 350 359 381 392 401 415 417	AUGUST  386 404 404 390 403 403 445 445 450 455  433 136 178 210 222 237 305 252 279 323 331 282 279 323 331 282 307 327 345 355 374 388 396 385	e374 398 410 417 426 444 458 452 454 458 464 445 200 196 218 230 266 316 405 321 330 336 311 315 336 351 367 383 394 402	415 424 435 445 451 462 466 479 493 503 513 520 530 569 568 582 592 617 683 419 346 353 361 368 369 377 370 366 366 387	385 400 414 428 420 448 442 463 474 487 497 507 518 524 554 557 582 587 417 337 336 343 351 366 362 359 358 355 359	402 414 423 436 441 455 459 469 469 480 493 505 514 523 536 536 536 598 524 373 342 350 355 368 368 368 368 368 368 368 374

e Estimated

## 06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

OXYGEN DISSOLVED, (mg/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		UA.	TODIN DIDE	SOLVED, (IIIS	ე/ ⊔ / , WA	IDN IDAN	OCTOBER 20	001 10 B	BE I BRIDBIC	2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NT/	OVEMBER		7	ECEMBER			JANUAR	,
		OCTOBER		IN	OVEMBER		D	ECEMBER			JANUAR	Ĺ
1	22.5	7.3	14.5	11.4	6.1	9.0	1.4	0.2	0.4			
2 3	19.4 17.4	6.7	14.7	14.4	4.8 3.4	9.1	3.8 4.2	0.3	1.3			
4	11.6	9.7 3.6	14.1 9.0	17.7 17.6	4.1	9.7 9.5	5.0	1.1	2.4 3.6			
5	10.1	4.3	8.9	16.6	2.8	8.1	5.7	0.4	4.1			
6 7	8.1 8.0	2.1 1.7	5.8 4.9	17.2 19.7	5.0 6.4	10.6 13.0	3.1	0.4	1.0			
8	9.1	2.1	5.6	15.7	4.9	11.3						
9	9.0	4.3	7.1	13.8	4.2	8.4						
10	8.6	1.0	5.9	11.5	3.6	7.0						
11	2.8	0.5	1.4	13.5	1.1	7.0						
12	1.4	0.3	0.6	11.8	1.6	5.6						
13	3.8	0.2	1.7	11.0	1.1	6.8						
14 15	4.3 10.2	0.3	2.4 6.0	11.4 10.6	1.5 0.9	6.5 5.3						
13	10.2	0.2	0.0	10.0	0.9	5.5						
16	9.1	1.4	7.5	5.7	1.3	2.6						
17	7.4	0.5	4.9	8.0	0.8	2.8						
18 19	7.4 7.1	3.5 0.2	6.1 4.3	7.8 11.0	0.6 2.6	3.7 7.5						
20	8.6	0.5	4.8	10.5	1.4	5.9						
21	7.1	1.1	5.2	11.6 12.4	3.5	8.4						
22 23	8.8 6.3	2.7 2.0	6.6 3.9	10.0	3.0 6.9	8.4 8.1						
24	6.2	1.1	4.1	10.0	4.9	7.8						
25	7.0	2.9	5.2	6.3	0.1	3.0						
26	7.2	2.4	5.0	2.8	1.3	2.1						
27	8.1	2.3	5.1	3.8	2.8	3.3						
28	9.7	3.5	7.2	3.6	0.6	2.7						
29 30	9.6 11.9	5.3 3.2	7.1 7.8	1.9 2.8	0.2	0.6 1.2						
31	11.2	7.5	9.2	2.0								
MONTH	22.5	0.2	6.3	19.7	0.1	6.5						
DAV	млч	MTN	MEAN	MAY	MTN	MEAN	млу	MTN	MEAN	MAY	MTN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		MIN FEBRUARY		MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
				MAX		MEAN	MAX				MAY	
DAY 1 2		FEBRUARY			MARCH			APRIL	MEAN 	MAX 5.0 8.0		MEAN 3.7 6.3
1 2 3	 	FEBRUARY	 		MARCH		 	APRIL		5.0 8.0 8.8	MAY 2.2 4.9 4.1	3.7 6.3 7.5
1 2 3 4	  	FEBRUARY	  	  	MARCH	  	  	APRIL	  	5.0 8.0 8.8 10.2	MAY 2.2 4.9 4.1 6.7	3.7 6.3 7.5 8.4
1 2 3	 	FEBRUARY	 		MARCH		 	APRIL		5.0 8.0 8.8	MAY 2.2 4.9 4.1	3.7 6.3 7.5
1 2 3 4 5		FEBRUARY	   	   	MARCH	  	   	APRIL	  	5.0 8.0 8.8 10.2 12.3	MAY 2.2 4.9 4.1 6.7 7.4 6.9	3.7 6.3 7.5 8.4 10.1
1 2 3 4 5		FEBRUARY		   	MARCH	====	   	APRIL	====	5.0 8.0 8.8 10.2 12.3 10.6 8.6	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8	3.7 6.3 7.5 8.4 10.1 8.4 7.4
1 2 3 4 5 6 7 8		FEBRUARY	   	   	MARCH	  	   	APRIL	  	5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0
1 2 3 4 5	   	FEBRUARY		    	MARCH		  	APRIL	==== ==== ====	5.0 8.0 8.8 10.2 12.3 10.6 8.6	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8	3.7 6.3 7.5 8.4 10.1 8.4 7.4
1 2 3 4 5 6 7 8 9		FEBRUARY		    	MARCH		     	APRIL	   	5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9
1 2 3 4 5 6 7 8 9 10		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9
1 2 3 4 5 6 7 8 9		FEBRUARY		    	MARCH		     	APRIL	   	5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0	3.7 6.3 7.5 8.4 10.1 8.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3
1 2 3 4 5 6 7 8 9 10		FEBRUARY		      	MARCH		      	APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4	3.7 6.3 7.5 8.4 10.1 8.4 7.0 4.8 2.9 3.2 5.8 e5.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0	3.7 6.3 7.5 8.4 10.1 8.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		        	MARCH			APRIL		5.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6 e3.6
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 4.0	3.7 6.3 7.5 8.4 10.1 8.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6 e3.0 e5.1 e7.3 e9.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.0 e5.1 e7.3 e9.2 e11.4
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 4.0	3.7 6.3 7.5 8.4 10.1 8.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6 e3.0 e5.1 e7.3 e9.2 e11.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1 	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 4.0 12.4	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.4 7.4 8.2.9 3.2 5.8 e5.2 e4.3 e3.6 e5.1 e7.3 e9.2 e11.4
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 4.0	3.7 6.3 7.5 8.4 10.1 8.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6 e3.0 e5.1 e7.3 e9.2 e11.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY			MARCH			APRIL		5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1 	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0 12.4 6.8	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6 e7.3 e9.2 e11.4 e14.0 16.9 12.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		FEBRUARY			MARCH		         9.5 8.6 3.4	APRIL	        9.0 6.5 2.7	5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1  21.8 17.6 8.9 9.5	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0 12.4 6.8 2.9 6.2	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.0 e5.1 e7.3 e9.2 e11.4 e14.0 16.9 12.5 4.9 8.2
1 2 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		FEBRUARY			MARCH		        9.5 8.6 3.4 6.2 10.7	APRIL	       9.0 6.5 2.7 5.1	5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1  21.8 17.6 8.9 9.5 7.0 8.1	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0 12.4 6.8 2.9 6.2 4.8 5.0	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.4 7.4 8.2.9 3.2 5.8 e5.2 e4.3 e3.6 e5.1 e7.3 e9.2 e11.4 e14.0 16.9 12.5 4.9 8.2 e12.5
1 2 3 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY			MARCH		         9.5 8.6 3.4 6.2 10.7 9.2	APRIL	        9.0 6.5 2.7 5.1 9.0 8.2	5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1  21.8 17.6 8.9 9.5 7.0 8.1 7.8	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0 12.4 6.8 2.9 6.2 4.8 5.0 4.9	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6 e7.3 e9.2 e11.4 e14.0 16.9 12.5 4.9 8.2
1 2 3 4 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		FEBRUARY			MARCH			APRIL	        9.0 6.5 2.7 5.1 9.0 8.2 5.8	5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1  21.8 17.6 8.9 9.5 7.0 8.1 7.7 8.9 9.5	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 4.0 12.4 6.8 2.9 6.2 4.8 5.0 4.9 5.0	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6 e7.3 e9.2 e11.4 e14.0 16.9 12.5 4.9 8.2
1 2 3 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY			MARCH		         9.5 8.6 3.4 6.2 10.7 9.2	APRIL	        9.0 6.5 2.7 5.1 9.0 8.2	5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1  21.8 17.6 8.9 9.5 7.0 8.1 7.8	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 2.4 4.0 12.4 6.8 2.9 6.2 4.8 5.0 4.9	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.0 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6 e7.3 e9.2 e11.4 e14.0 16.9 12.5 4.9 8.2
1 2 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		FEBRUARY			MARCH		        9.5 8.6 3.4 6.2 10.7 9.2 6.5 5.2	APRIL	        9.0 6.5 2.7 5.1 9.0 8.2 5.8 4.2	5.0 8.0 8.8 10.2 12.3 10.6 8.6 8.3 6.0 4.2 5.8 7.7 7.5 6.1  21.8 17.6 8.9 9.5 7.0 8.1 7.8 9.5	MAY 2.2 4.9 4.1 6.7 7.4 6.9 5.8 5.0 2.4 1.3 0.9 2.0 4.0 12.4 6.8 2.9 6.2 4.8 5.0 4.9 5.0 6.3	3.7 6.3 7.5 8.4 10.1 8.4 7.4 7.4 7.4 4.8 2.9 3.2 5.8 e5.2 e4.3 e3.6 e5.1 e7.3 e9.2 e11.4 e14.0 16.9 12.5 4.9 8.2 e11.5 4.9 8.2 e11.5 4.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6

### BLUE RIVER BASIN 127

## 06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

OXYGEN DISSOLVED, (mg/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	lR.
1 2 3 4 5	16.6 12.5 8.8 5.8 5.8	9.3 5.2 3.2 2.9 1.6	12.8 8.7 5.6 4.3 3.2	14.6 10.9 7.1 6.6 8.0	5.5 2.4 0.8 0.9 0.1	10.9 5.5 3.9 3.6 3.3	8.8 7.4 9.0 10.0	1.2 0.8 1.2 0.2	e8.7 4.9 4.1 4.9 4.5	14.8 11.6 9.5 9.7 12.7	6.1 3.6 3.2 2.3 3.2	10.1 8.2 6.5 5.6 7.1
6 7 8 9 10	5.2 6.9 9.1 7.4 3.0	1.6 2.2 3.8 2.8 0.8	3.3 4.7 6.3 5.5 1.9	15.3 16.8 13.4 14.5 11.3	1.4 7.5 2.4 1.6 2.8	7.8 11.6 9.5 10.4 8.2	6.3 6.1 7.5 7.9 9.4	1.4 0.4 1.0 1.5 2.1	3.4 2.4 3.4 4.5 5.5	11.6 13.2 13.0 10.9 11.8	3.8 2.1 2.1 3.0 2.2	7.8 7.2 7.3 6.3 5.7
11 12 13 14 15	6.6 6.2 9.4 9.8 12.8	0.8 3.3 2.5 1.7	2.9 5.0 4.9 4.9 7.2	11.1 11.1 13.8 18.4 15.8	1.0 1.3 2.5 3.0 6.9	4.5 5.6 7.3 9.8 13.1	8.5 2.2 6.8 2.7 5.8	0.4 0.1 0.1 0.1 0.3	3.9 0.6 1.7 0.8 2.7	13.8 14.9 14.4 7.5 11.8	3.5 3.2 3.6 2.8 3.0	7.3 8.2 8.7 4.4 5.4
16 17 18 19 20	17.3 17.3 16.6 16.4 15.2	4.3 4.5 7.9 3.9 6.5	11.0 11.4 11.8 11.0 11.2	13.9 12.6 13.4 10.5 8.7	10.3 4.8 5.8 0.9 0.2	12.3 10.7 9.5 6.3 3.8	11.9 11.4 9.3 8.0 6.0	0.6 0.8 0.3 1.1 0.1	6.1 5.5 3.8 5.2 3.0	13.5 11.4 12.6 6.9 5.0	3.3 3.7 4.5 3.2 2.3	7.6 8.4 7.9 5.1 3.4
21 22 23 24 25	13.6 12.4 13.7 13.2 13.2	7.3 5.8 5.3 5.4 5.8	10.5 9.3 9.4 8.9 9.2	8.3 9.3 7.5 8.1 6.6	2.1 1.2 0.0 0.6 1.1	5.4 4.7 2.8 3.7 4.3	7.6 11.6 13.0 8.7 10.8	0.8 1.3 0.3 1.6 0.6	4.0 5.6 6.5 3.7 5.1	6.1 6.7 8.5 11.0 12.6	2.4 3.3 4.1 6.2 6.8	4.1 4.7 6.2 7.9 9.2
26 27 28 29 30 31	12.5 3.6 4.2 21.8 18.5	3.2 0.1 0.1 1.2 6.6	7.5 0.7 1.7 9.3 13.2	6.9 13.2 11.2 	1.2 1.8 0.7 	4.1 7.3 5.8 e1.4 e2.7 e8.8	13.3 11.1 10.5 9.2 13.8 20.5	1.4 2.9 2.0 1.9 1.9 3.8	7.7 7.2 5.7 4.9 6.1 9.7	19.6 18.1 17.2 15.6 13.0	8.7 10.4 11.7 11.3 7.2	12.6 13.9 14.2 13.5 10.9
MONTH	21.8	0.1	7.2			6.7			4.7	19.6	2.1	7.8

e Estimated

TURBIDITY, (NTU), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		I	DECEMBER			JANUARY	
1 2 3 4 5	18 16 11 150 200	0.0 1.0 1.0 0.0	5.5 6.5 6.5 13 54	7.0 6.0 4.0 9.0 4.0	1.0 0.0 0.0 0.0 0.0	4.9 2.7 1.7 1.7	63 65 35 35 50	29 27 26 24 21	35 33 31 28 30	  	  	  
6 7 8 9 10	21 18 16 7.0 87	9.0 4.0 2.0 3.0 3.0	16 11 7.7 4.8	7.0 12 14 9.0 12	0.0 1.0 1.0 1.0	2.2 3.4 7.1 4.6 3.7	38   	19   	29   	  	  	  
11 12 13 14 15	25 12 17 9.0 130	10 5.0 3.0 2.0 2.0	18 6.6 5.4 5.6 41	16 16 17 20 9.0	1.0 1.0 1.0 0.0	5.5 5.9 5.5 5.4 2.9	  	  	  	  	  	
16 17 18 19 20	48 34 28 17 10	17 15 13 6.0 4.0	37 25 22 10 6.5	27 19 18 21 14	0.0 0.0 0.0 1.0	3.7 3.2 4.7 11 6.7	  	  	  	  	  	
21 22 23 24 25	27 21 46 15 130	3.0 2.0 5.0 2.0 2.0	4.2 4.7 13 6.3 7.7	18 11 67 320 220	4.0 1.0 4.0 24 110	9.3 6.4 8.2 220 160	  	  	  	  		
26 27 28 29 30 31	7.0 4.0 9.0 9.0 14 21	1.0 0.0 2.0 1.0 0.0 4.0	3.8 2.2 4.4 3.4 3.6 6.7	140 89 66 74 54	83 65 46 39 36	110 75 57 44 41	   	   	   		   	
MONTH	200	0.0	13	320	0.0	27						

128 BLUE RIVER BASIN

### 06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

TURBIDITY, (NTU), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1										110	21	54
2										94 21	14	53
4										12	7.0 6.0	13 8.7
5										81	6.0	10
6										160	22	83
7 8										120 47	28 22	42 38
9										39	17	26
10										27	9.0	18
11										160	7.0	32
12 13										71 29	28 14	47 20
14										25	1.0	10
15												e2.6
16												e34
17 18												e30 e30
19												e15
20												e12
21												e9.0
22 23							28	18	20	22 96	10 11	14 20
24							26	13	18	300	15	33
25							14	2.0	5.5	420	29	64
26							7.0	2.0	3.8	32	20	27
27							320	4.0	83	42	6.0	16
28 29							72 51	36 31	50 36	35 5.0	2.0 1.0	4.2 2.5
30							180	29	59	48	2.0	7.0
31										37	5.0	11
MONTH												25
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1	16	6.0	9.9	13	3.0	6.3			e4.0			e10
2			e9.0	21	1.0	4.2	10	2.0	5.3			e10
3 4			e8.0 e7.0	10 23	0.0	2.8 8.2	12 13	2.0 2.0	4.4 3.9			e10 e10
5	14	2.0	6.1	14	0.0	4.9	33	1.0	4.9			e10
6	15	1.0	3.0	14	1.0	3.4	14	2.0	6.1			e10
7	12	2.0	3.7	13	2.0	5.2	21	3.0	7.0			e10
8 9	12 170	2.0	3.6 19	10 20	3.0 5.0	6.1 8.7	18 15	3.0 3.0	7.4 6.3			e10 e10
10	29	3.0	15	21	5.0	11	22	4.0	6.6			e10
11	170	1.0	11	24	5.0	13	19	3.0	7.1			e10
12	160	10	45	14	2.0	7.3	28	5.0	14			e10
13 14	18	6.7 5.2	11 6.9	17 19	6.0 7.0	10 11	660 80	11	110 37			e10
15	10 21	2.6	5.4	31	7.0	16	61	21 16	26			e12 e11
16	12	4.0	6.4	46	10	18	77	26	42			e10
17	20	5.2	9.5	23	13	17	500	48	150	30	6.0	10
18	26	5.8	9.4	25	9.0	17	1500	0.0	150	29	5.0	12
19 20	27 19	7.2 5.9	12 9.9	25 33	7.0 5.0	15 12	68 34	0.0 15	22 21	40 19	7.0 5.0	15 9.4
21 22	120 51	6.3 6.7	13 12	10 15	5.0 4.0	7.5 9.0	91 	14	30 e15	19 21	3.0 3.0	5.8 5.3
23	100	7.1	15	20	4.0	11			e20	16	2.0	4.1
24	67	7.7	12	12	3.0	8.1			e10	8.0	1.0	3.5
25	29	8.1	11	11	3.0	6.3			e10	27	2.0	3.9
26	160	7.0	34	9.0	3.0	4.7			e10	14	0.0	4.0
27 28	200 29	12 4.0	54 11	12 170	4.0	6.0 18			e10 e10	19 36	1.0 2.0	4.4 5.7
28 29	29 27	3.0	5.9	170	4.0	e22			e10 e10	13	1.0	3.5
30	16	5.0	7.2			e5.7			e10	22	2.0	4.3
31						e2.7			e10			
MONTH			13			9.6			25			8.5

e Estimated

### BLUE RIVER BASIN 129

### 06893590 BLUE RIVER AT 12TH STREET IN KANSAS CITY, MO

LOCATION.--Lat 39°05'48", long 94°29'26" in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec. 6, T.49 N., R.32 W., Jackson County, Hydrologic Unit 10300101, on left downstream end of Twelfth Street Bridge, 5.0 mi above Missouri River, and at river mile 4.3.

DRAINAGE AREA.--258 mi<sup>2</sup>.

PERIOD OF RECORD.--Sept. 3, 1980 to current year. Stage only from Sept. 3, 1980 to Sept. 30, 1999.

GAGE.--Water-stage recorder. Datum of gage 714.41 ft above National Geodetic Vertical Datum of 1929. Prior to May 20, 1997, datum of gage 10 ft higher.

REMARKS.--Records fair except estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge of 34,900 ft<sup>3</sup>/s during flood of Sept. 13, 1977.

		DISCHAR	GE, CUBIC	FEET PER		JATER YE MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	46 e39 e38 e42 978	e35 e34 e32 e37 e40	e37 e37 e37 e37 e33	e42 e42 e43 e47 e48	370 250 216 190 137	66 83 85 73 75	e45 e36 e38 e39 e40	221 198 172 155 149	167 148 136 129 245	36 35 34 53 75	37 31 31 34 33	33 32 30 29 32
6 7 8 9 10	178 77 60 52 102	e38 e43 e41 e35 e37	e35 e35 e34 e34 e35	e48 e45 42 45 45	109 95 89 85 81	80 76 73 319 130	43 45 107 322 91	1070 816 1250 2250 736	141 121 111 180 289	42 38 72 43 46	32 31 31 29 26	33 33 34 36 36
11 12 13 14 15	85 53 49 47 551	e42 e41 42 42 42	e39 e90 270 89 67	43 44 42 44 42	75 69 64 61 59	95 88 77 72 68	69 65 61 56 52	1120 6370 2470 689 441	156 1390 291 118 88	53 101 47 44 33	26 40 945 169 66	38 35 35 72 106
16 17 18 19 20	602 123 89 79 59	e38 e36 e40 60 45	62 58 55 e52 e52	42 43 46 50 58	57 56 54 370 908	65 62 60 60	50 49 49 241 405	513 577 463 262 218	73 63 60 53 47	30 27 26 28 502	53 57 83 162 130	59 43 42 300 129
21 22 23 24 25	53 53 55 60 58	e37 e38 e37 233 89	e52 e52 e50 e49 e48	57 53 50 49 44	241 134 106 93 84	e59 e56 e56 e55 e57	3900 903 365 249 198	186 174 189 272 4950	47 42 40 37 39	62 41 36 34 33	57 49 66 48 39	59 45 39 38 35
26 27 28 29 30 31	46 48 e38 e35 e32 e30	53 51 46 44 e39	e46 e46 e48 e50 e50 e48	42 42 43 44 120 1070	77 70 66  	60 e56 e82 89 e55 e50	172 1390 1420 417 272	1040 628 429 273 218 189	103 339 61 44 39	26 26 50 315 79 46	39 38 35 35 32 32	35 34 34 30 29
MEAN MAX MIN	124 978 30	48.9 233 32	55.7 270 33	81.1 1070 42	152 908 54	78.8 319 50	373 3900 36	925 6370 149 YEAR (WY)	160 1390 37	68.2 502 26	81.2 945 26	52.2 300 29
MEAN MAX (WY) MIN (WY)	130 210 2001 54.4 2000	79.0 132 2001 48.9 2002	53.9 55.7 2002 52.1 2001	87.7 149 2001 32.5 2000	256 478 2001 141 2000	186 325 2001 78.8 2002	296 463 2001 50.8 2000	468 925 2002 139 2000	685 1542 2001 160 2002	151 209 2000 68.2 2002	106 167 2001 68.7 2000	116 180 2001 52.2 2002
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEAR	2	FOR 2002	WATER YEA	R	WATER YEA	ARS 2000	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN			334 9480 30	Jun 6 Oct 31	i 6	184 5370 26 J	May 1 ul 18,26,2 Aug 10,1	7,	266 348 184 9480 22		2001 2002 6 2001 LO 1999	
ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				34   586 105 41	Oct 29	8 18	30 8680 8.30 23 Jul 1 320 53 34	Aug 10,1 Aug May 1 May 1 8,26,Aug 1	5 2 2	24 13300 21.80 20 453 72 37	Jun Jun	10 1999 6 2001 6 2001 9 2000

e Estimated

130 LITTLE BLUE RIVER BASIN

### 06893791 LONGVIEW RESERVOIR AT KANSAS CITY, MO

LOCATION.--Lat  $38^{\circ}55^{\circ}29^{\circ}$ , long  $94^{\circ}27^{\circ}35^{\circ}$ , in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec.4, T.48 N., R.32 W., Jackson County, Hydrologic Unit 10300101, in the U.S. Army Corps of Engineers Administration Building at the right end of dam on Little Blue River at Kansas City and 3.1 mi upstream from Cedar Creek.

DRAINAGE AREA. -- 50.3 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of

REMARKS.--Lake is formed by a rolled earthfill type dam. Closure began June 16, 1983. Storage began on Sept. 16, 1985. An uncontrolled limited service type spillway 200 ft wide is located at the left abutment. Capacity of surcharge pool 35,370 ac-ft (909.0 ft to 922.9 ft); of flood control pool 24,800 ac-ft (elevation 891.0 ft to 909.0 ft); and of multipurpose pool 22,100 ac-ft (elevation 816.0 ft to 891.0 ft). Lake is used for flood control, water-quality control, recreation, and fish and wildlife enhancement. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 37,100 ac-ft, May 16, 1990, elevation, 903.36 ft; minimum, 2,680 ac-ft, Oct. 1, 1985, elevation, 849.40 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 28,100 ac-ft, May 12, elevation, 896.67 ft; minimum, 21,500 ac-ft, Sept. 14, elevation, 890.33 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	891.17 891.15 891.12 891.10 891.25	891.10 891.09 891.09 891.08	890.94 890.94 890.94 890.94	890.79 890.78 890.78 890.77	891.48 891.50 891.53 891.49 891.45	891.23 891.25 891.24 891.22	891.10 891.08 891.06 891.06	891.76 891.64 891.54 891.46 891.41	891.62 891.54 891.45 891.32	890.98 890.96 890.95 890.94 890.93	890.81 890.78 890.76 890.75	890.68 890.68 890.65 890.64
6 7 8 9 10	891.32 891.29 891.26 891.22	891.08 891.08 891.07 891.06 891.05	890.95 890.95 890.94 890.94	890.76 890.76 890.76 890.76	891.41 891.37 891.34 891.32	891.21 891.21 891.21 891.29 891.30	891.05 891.05 891.06 891.18 891.18	891.37 891.76 892.44 893.82 893.08	891.30 891.24 891.18 891.16 891.20	890.92 890.90 890.88 890.86	890.73 890.71 890.68 890.66	890.58 890.52 890.52 890.50 890.49
11 12 13 14 15	891.22 891.20 891.19 891.17 891.15	891.05 891.04 891.04 891.03	890.93 890.93 891.02 891.01 890.99	890.77 890.77 890.78 890.77	891.26 891.23 891.21 891.20 891.18	891.29 891.27 891.24 891.23	891.19 891.18 891.17 891.17	892.99 896.67 895.86 894.32 893.26	891.20 893.52 892.92 892.43 892.10	890.84 890.95 890.96 890.95	890.64 890.64 890.77 890.85 890.85	890.44 890.37 890.35 890.33
16 17 18 19 20	891.46 891.43 891.38 891.34 891.31	891.02 891.01 891.01 891.01	890.98 890.96 890.95 890.93	890.76 890.76 890.75 890.78 890.79	891.16 891.15 891.14 891.19 891.57	891.20 891.19 891.18 891.17	891.15 891.14 891.14 891.17 891.21	892.65 892.52 892.50 892.20 891.97	891.85 891.63 891.52 891.42 891.34	890.93 890.89 890.88 890.88	890.84 890.83 890.83 890.90	890.35 890.35 890.34 890.47 890.53
21 22 23 24 25	891.29 891.27 891.27 891.27	891.00 890.99 890.98 891.00 891.00	890.90 890.89 890.88 890.87 890.86	890.78 890.78 890.78 890.78	891.55 891.50 891.46 891.41 891.34	891.15 891.14 891.12 891.10 891.10	891.98 892.04 891.88 891.73 891.59	891.81 891.70 891.59 891.56 893.68	891.28 891.24 891.19 891.15 891.12	890.92 890.89 890.80 890.79 890.77	890.82 890.81 890.85 890.83 890.82	890.52 890.50 890.47 890.45 890.44
26 27 28 29 30 31	891.21 891.19 891.16 891.12 891.12	890.99 890.98 890.97 890.95 890.95	890.85 890.84 890.81 890.80 890.80	890.78 890.77 890.76 890.76 890.85 891.34	891.32 891.28 891.26 	891.10 891.10 891.10 891.11 891.10	891.51 891.52 892.40 892.13 891.91	893.09 892.63 892.33 892.07 891.90	891.09 891.10 891.07 891.04 891.01	890.73 890.73 890.71 890.82 890.85 890.83	890.80 890.78 890.76 890.75 890.73	890.43 890.41 890.40 890.38 890.38
MAX MIN	891.46 891.10	891.10 890.95	891.02 890.79	891.34 890.75	891.57 891.14	891.30 891.10	892.40 891.05	896.67 891.37	893.52 891.01	890.98 890.71	890.91 890.64	890.68 890.33
( - ) ( = )	22200 -100	22100 -100	22000 -100	22500 +500	22400 -100	22200 -200	23000 +800	22900 -100	22100 -800	22000 -100	21900 -100	21600 -300

CAL YR 2001...-200 WTR YR 2002....-700

<sup>(-)</sup> Contents, in acre-feet, at the end of the month.(=) Change in contents, in acre-feet.

### LITTLE BLUE RIVER BASIN 131

### 06893885 BLUE SPRINGS RESERVOIR NEAR BLUE SPRINGS, MO

LOCATION.--Lat 39°01'03", long 94°20'06", sec.33, T.49 N., R.31 W., Jackson County, Hydrologic Unit 10300101, in maintenance building at right end of dam on East Fork Little Blue River, 2.2 mi west of Blue Springs, and 2.5 mi upstream from mouth.

DRAINAGE AREA. -- 32.8 mi<sup>2</sup>.

PERIOD OF RECORD. -- August 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rolled earthfill type dam. An uncontrolled limited service type spillway 300 ft wide is located on left abutment. Capacity of surcharge pool, 3,310 ac-ft (elevation 820.3 to 823.6 ft); of flood control pool, 1,590 ac-ft (elevation 802.0 to 820.3 ft); and of multipurpose pool, 10,640 ac-ft (elevation 760.0 to 802.0 ft). U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 22,800 ac-ft, May 17, 1990, elevation, 816.37 ft; minimum contents, 142 ac-ft, Oct. 22, 29, 30, and Nov. 1-11, 1988, elevation, 773.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 15,700 ac-ft, May 13, elevation, 808.28 ft; minimum, 9,430 ac-ft, Jan. 18 elevation, 800.00 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	802.55 802.51 802.49 802.45 802.53	802.34 802.31 802.30 802.30 802.28	802.10 802.10 802.09 802.10 802.11	800.31 800.23 800.14 800.12 800.11	800.50 800.61 800.72 800.83 800.92	802.43 802.44 802.45 802.44 802.43	802.21 802.20 802.18 802.17 802.16	803.08 803.00 802.90 802.84 802.77	802.99 802.88 802.79 802.70 802.68	802.11 802.09 802.07 802.04 802.08	801.79 801.76 801.74 801.73	801.49 801.48 801.45 801.43 801.42
6	802.54	802.28	802.12	800.10	801.02	802.43	802.16	802.82	802.60	802.05	801.70	801.41
7	802.52	802.27	802.11	800.10	801.08	802.42	802.17	803.10	802.56	802.05	801.68	801.40
8	802.51	802.25	802.05	800.10	801.16	802.42	802.16	803.33	802.51	802.03	801.64	801.38
9	802.48	802.25	801.98	800.10	801.25	802.44	802.23	804.85	802.46	802.01	801.62	801.36
10	802.47	802.23	801.90	800.10	801.30	802.44	802.23	805.01	802.46	801.99	801.60	801.34
11 12 13 14 15	802.47 802.44 802.44 802.42 802.39	802.22 802.21 802.20 802.21 802.19	801.82 801.76 801.76 801.70 801.63	800.10 800.08 800.07 800.05 800.04	801.37 801.42 801.47 801.52 801.53	802.43 802.42 802.41 802.41 802.38	802.23 802.23 802.23 802.22 802.22	804.70 806.60 808.28 807.63 806.68	802.43 802.54 802.54 802.54 802.52	801.98 802.05 802.05 802.03 802.02	801.59 801.57 801.58 801.57	801.32 801.29 801.28 801.27 801.30
16	802.55	802.19	801.54	800.02	801.59	802.37	802.22	805.70	802.50	802.01	801.55	801.29
17	802.54	802.18	801.48	800.01	801.63	802.36	802.22	804.72	802.47	802.01	801.55	801.27
18	802.54	802.18	801.40	800.00	801.66	802.35	802.25	804.10	802.44	802.00	801.55	801.30
19	802.53	802.19	801.32	800.01	801.74	802.34	802.26	803.69	802.42	801.98	801.61	801.33
20	802.52	802.18	801.26	800.02	802.04	802.33	802.28	803.41	802.39	801.96	801.60	801.35
21	802.50	802.17	801.18	800.03	802.17	802.31	802.74	803.19	802.37	801.95	801.59	801.32
22	802.50	802.16	801.12	800.04	802.27	802.29	802.92	803.04	802.34	801.94	801.57	801.30
23	802.48	802.14	801.04	800.05	802.35	802.27	802.98	802.94	802.30	801.91	801.57	801.28
24	802.48	802.15	800.95	800.05	802.40	802.26	802.97	802.86	802.27	801.88	801.60	801.27
25	802.46	802.15	800.87	800.05	802.41	802.27	802.92	803.80	802.25	801.87	801.59	801.25
26 27 28 29 30 31	802.42 802.40 802.38 802.36 802.35 802.34	802.13 802.13 802.12 802.11 802.10	800.80 800.70 800.63 800.55 800.47 800.40	800.05 800.06 800.04 800.03 800.05 800.31	802.44 802.43 802.44 	802.25 802.25 802.24 802.24 802.23 802.22	802.85 802.87 803.21 803.24 803.17	804.23 803.99 803.69 803.47 803.26 803.11	802.22 802.21 802.19 802.16 802.14	801.85 801.83 801.80 801.83 801.82 801.80	801.58 801.57 801.55 801.54 801.51 801.51	801.24 801.21 801.21 801.19 801.19
MEAN	802.47	802.20	801.45	800.08	801.58	802.35	802.47	804.09	802.46	801.97	801.61	801.32
MAX	802.55	802.34	802.12	800.31	802.44	802.45	803.24	808.28	802.99	802.11	801.79	801.49
MIN	802.34	802.10	800.40	800.00	800.50	802.22	802.16	802.77	802.14	801.80	801.51	801.19
( - )	11100	11000	9720	9660	11900	11000	11700	11700	11000	10700	10500	10300
( = )	-200	-100	-1280	-60	+2240	-900	+700	0	-700	-300	-200	-200

CAL YR 2001...-1280 WTR YR 2002...-1000

<sup>(-)</sup> Contents, in acre-feet, at the end of the month.

<sup>(=)</sup> Change in contents, in acre-feet.

132 LITTLE BLUE RIVER BASIN

### 06894000 LITTLE BLUE RIVER NEAR LAKE CITY, MO

LOCATION.--Lat 39°06'02", long 94°18'01", in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.35, T.50 N., R.31 W., Jackson County, Hydrologic Unit 10300101, on right bank 50 ft downstream from bridge on west bound lane of State Highway 78, 3.0 mi southwest of Lake City, and 10.5 mi upstream from mouth.

DRAINAGE AREA. -- 184 mi<sup>2</sup>.

PERIOD OF RECORD. -- March 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 719.15 ft above National Geodetic Vertical Datum of 1929. Prior to July 24, 1957, nonrecording gage at site 50 ft downstream at same datum; July 24, 1957, to Apr. 28, 1977, water-stage recorder; Apr. 29, 1977, to May 10, 1979, nonrecording gage; May 11, 1979, to Sept. 12, 1983, water-stage recorder at site 50 ft upstream at present datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

		DISCHARG	GE, CUBIC	FEET PER		WATER YE	EAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	30	16	31	180	51	26	292	225	20	6.3	3.7
2	40	29	16	31	153	e55	24	254	192	18	5.2	3.4
3	40	28	16	30	147	e52	24	225	166	17	5.3	3.6
4	37	26	17	16	128	e45	21	202	148	21	5.9	3.8
5	325	27	20	11	101	e52	21	184	142	22	5.8	3.8
6	120	24	24	13	82	57	21	1830	125	20	6.7	3.8
7	72	23	22	12	73	53	25	893	109	17	5.7	3.9
8	60	22	46	12	66	57	61	1200	97	30	5.5	4.1
9	51	22	46	13	62	136	107	2310	90	14	5.2	4.5
10	54	21	45	14	58	85	58	1220	101	10	5.3	4.7
11	54	21	45	13	51	68	44	2230	96	33	5.1	4.8
12	44	20	68	12	46	62	46	4320	516	98	5.5	4.9
13	39	19	101	12	42	63	41	2040	481	38	9.3	4.8
14	35	21	55	11	39	52	40	1590	324	19	27	5.0
15	185	29	44	10	38	46	40	1170	237	14	10	5.3
16	232	23	41	10	35	45	41	985	186	11	6.7	4.3
17	102	21	39	10	33	46	41	838	151	9.4	5.7	4.0
18	79	21	40	9.8	31	49	40	661	127	8.5	8.2	4.0
19	66	33	39	11	205	48	145	477	108	7.7	22	37
20	58	22	37	14	481	44	312	371	88	7.0	59	25
21	53	20	33	12	166	41	2170	305	76	6.7	11	6.7
22	49	19	35	12	117	37	502	261	63	6.2	6.7	4.3
23	59	18	34	17	91	35	330	223	54	6.8	32	3.5
24	47	28	34	27	79	35	265	221	44	6.2	28	3.1
25	43	26	34	26	72	44	220	3160	38	5.7	8.0	3.0
26 27 28 29 30 31	38 35 32 33 31 30	22 21 18 17 17	34 34 33 31 31	25 24 23 24 74 389	69 56 53  	44 32 40 35 29 27	197 1020 686 438 349	1010 752 533 400 319 263	36 62 36 27 23	5.3 5.0 5.0 21 21 9.1	5.3 4.4 4.1 3.8 3.8 3.9	2.8 2.8 2.8 3.2 3.7
MEAN	70.6	22.9	36.8	30.6	98.4	50.5	245	992	139	17.2	10.5	5.81
MAX	325	33	101	389	481	136	2170	4320	516	98	59	37
MIN	30	17	16	9.8	31	27	21	184	23	5.0	3.8	2.8
IN.	0.44	0.14	0.23	0.19	0.56	0.32	1.49	6.21	0.84	0.11	0.07	0.04
STATISTI	ICS OF MO	NTHLY MEAN	N DATA FO	R WATER Y	EARS 1948	- 2002,	, BY WATER Y	YEAR (WY)				
MEAN	134	109	89.0	87.2	132	192	249	281	272	144	92.0	154
MAX	983	854	495	357	576	1153	1069	1534	1216	1103	1455	1018
(WY)	1987	1962	1993	1993	1985	1973	1983	1995	1967	1993	1982	1961
MIN	0.13	0.49	1.36	1.36	3.09	4.15	11.3	27.9	10.3	0.26	0.02	0.20
(WY)	1954	1957	1956	1957	1957	1956	1954	1988	1953	1954	1953	1953
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEA	ıR	FOR 2002 V	VATER YEA	AR	WATER YE	ARS 1948	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			214 4960 11 16  15.83 430 90 22	Jun Jan Jan	2	4320 2.8 3.0 5130 16.76 2.7 10.63 297 35 5.3	May 1 Sep 26-2 Sep 26-2 May 2 May 2 Sep 26-2	28 23 25 25	162 440 11.5 27700 0.00 42300 27.94 0.00 11.94 317 48 8.1	Severa Severa Aug Sep		

e Estimated

### MISSOURI RIVER MAIN STEM 133

### 06895500 MISSOURI RIVER AT WAVERLY, MO

LOCATION.--Lat 39°12'54", long 93°30'54", sec.14, T.51 N., R.23 W., Lafayette County, Hydrologic Unit 10300101, on downstream side of pier of bridge on State Highway 24 and U.S. Highway 65 at Waverly and at mile 293.5.

DRAINAGE AREA.--485,900  $\mathrm{mi}^2$ . The 3,959  $\mathrm{mi}^2$  in Great Divide basin are not included.

PERIOD OF RECORD.--October 1928 to current year. Gage-height records collected at same site 1878-79, 1883-99 are contained in reports of the Missouri River Commission; since 1915 in reports of the National Weather Service. Daily discharge not computed Apr. 1, 1977, to Mar. 31, 1978.

REVISED RECORDS.--WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 646.00 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1934, at datum 5.00 ft lower; Mar. 30, 1929, to Apr. 4, 1934, nonrecording gage; Apr. 5, 1934, to June 13, 1943, water-stage recorder; June 14, 1943, to Sept. 15, 1944, nonrecording gage; Sept. 16, 1944, to May 28, 1969, water-stage recorder all at present site and datum; May 29, 1969, to Jan. 8, 1984, water-stage recorder at site 450 ft downstream, present datum; Jan. 9, 1984, to May 24, 1984, nonrecording gage at present site and datum.

REMARKS.--Records good. Some regulation from many upstream reservoirs. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBIC	C FEET PER		WATER Y	EAR OCTOBE	R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52100	40200	41700	26100	34300	28800	37300	44800	52900	37800	32800	37400
2	53700	39600	40700	24700	31500	29000	37400	44000	51400	37300	31900	37600
3	54600	39700	39100	24400	29200	28900	37300	43800	50800	36800	31400	37400
4	50900	40400	36800	23600	28100	27100	37700	42100	49100	36600	30900	36400
5	50300	40700	34800	22900	26800	25900	39000	40700	47800	37100	30600	35900
6	52200	41100	33100	22900	25300	25800	39900	51500	48400	36200	30400	36000
7	47300	41300	31500	22900	25100	25200	40000	77300	46800	35900	30400	36000
8	45100	41300	31200	23300	25200	24800	39600	82100	45400	35500	30600	35600
9	43500	41200	31200	24200	25400	25600	39800	93200	44700	35300	31300	35400
10	42700	40700	30800	24900	25900	27700	39900	75100	44400	34800	33400	35400
11	42600	40500	31000	26200	27300	28400		63400	43900	34900	34100	35400
12	42900	40600	31100	27200	28300	28500		81600	48000	35500	32600	35300
13	44000	40600	31100	26500	29600	27900		100000	54600	35000	32000	35100
14	44000	40400	31300	26600	30300	27500		92500	52400	35100	33600	35400
15	44600	40500	30400	27800	30200	27600		79300	59100	36000	32600	35900
16	51800	40200	29800	28900	30300	27800	40000	66100	61800	37600	33000	36600
17	52700	40000	29200	29800	30600	29700	39000	58500	54800	36400	33100	36900
18	48200	40000	29100	30400	30500	35800	38500	55500	49700	35200	31800	37100
19	45300	39900	29000	30300	30300	37800	38900	56400	48400	34800	32300	37600
20	44300	40500	28500	29100	34200	33900	40800	54400	47300	34400	35100	37600
21	43300	41100	28200	28300	38300	30700	52300	51200	45600	34300	35800	36400
22	42700	41200	28700	29000	34800	29500	70600	47700	44700	33500	38800	35800
23	42700	41000	30200	29900	33300	29300	55100	45300	43500	32900	42300	36300
24	42200	41000	30800	29500	32300	29800	47300	45900	42800	32200	40700	36000
25	42000	41700	30500	28700	31200	32200	43700	59500	42800	31700	45500	34800
26 27 28 29 30 31	42400 41500 41200 40700 40300 40600	42400 44000 45200 45900 43700	30000 29800 29600 28800 27500 26800	28200 27900 27600 27400 28600 31000	30200 29400 29100 	35700 38200 39900 39000 37100 37100	41300 41500 54000 51700 46600	67900 57300 57400 53900 51800 52300	42800 41900 41600 41600 38600	31400 31500 31600 32600 34600 34300	57100 48800 45000 42300 39800 38300	34000 33400 33100 33000 33900
MEAN	45560	41220	31360	27060	29890	30720	42970	61050	47590	34800	36070	35760
MAX	54600	45900	41700	31000	38300	39900	70600	100000	61800	37800	57100	37600
MIN	40300	39600	26800	22900	25100	24800	37300	40700	38600	31400	30400	33000
IN.	0.11	0.09	0.07	0.06	0.06	0.07	0.10	0.14	0.11	0.08	0.09	0.08
MEAN	57700	53570	38360	30660	40140	56350	73910	76350	81750	73380	57540	57720
MAX	141900	116200	74470	65720		133500	145500	168400	176600	306500	155700	121700
(WY)	1974	1999	1987	1973		1979	1984	1995	1984	1993	1993	1993
MIN	35340	21620	13010	14770		19250	37920	39350	41340	34800	34420	35380
(WY)	1992	1992	1964	1963		1964	1989	1989	1988	2002	1991	1991
SUMMAR	Y STATIST	rics	FOR 2	2001 CALEN	DAR YEAR		FOR 2002 W	ATER YEAR		WATER Y	EARS 1958	- 2002 <sup>a</sup>
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			57270  168000 22900 23800 1.60 93900 47300 27900	Jun 22 Jan 27 Jan 1		38710 100000 22900 23500 103000 18.96 22700 1.08 51900 36900 27900	May 13 Jan 5-7 Jan 3 May 13 May 13 Jan 5-7		58250 109900 35950 611000 5000 5540 633000 1.15 5000 1.62 98000 49500 25900		1993 1963 28 1993 27 1963 27 1993 27 1993 20 1963	

a Post-regulation period.

# 06896187 MIDDLE FORK GRAND RIVER NEAR GRANT CITY, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $40^{\circ}27^{\circ}17^{\circ}$ , long  $94^{\circ}24^{\circ}12^{\circ}$ , in NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.9, T.65 N., R.31 W., Worth County, Hydrologic Unit 10280101, on Highway 169 approximately 2.0 mi south of the junction of Highway 169 and State Highway 46 in Grant City.

DRAINAGE AREA.--82.4 mi<sup>2</sup>.

PERIOD OF RECORD. -- November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 07	1425	ENVIRONM	ENTAL	3.2	10.6	117	8.3	519	18.5	220	63.9	13.8	5.37
JAN 16	0950	ENVIRONM	ENTAL.	2.3	13.2	95	8.3	688	.5				
MAR 13 13	0925 0926	ENVIRONM REPLICAT	ENTAL	4.4	11.4	95	8.2	519	6.0				
MAY 08	1015	ENVIRONM		28	7.9	88	8.1	387	18.5	160	47.1	10.0	5.70
JUL 31	0927	ENVIRONM		.40	7.0	86	8.1	533	24.0				
SEP						83	8.0	506					
04	1020	ENVIRONM	ENTAL	.15	7.3	83	8.0	506	20.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 07 JAN	17.0	193	196	238	0	24.2	.2	49.1	<10	320	<.04	.34	<.05
16 MAR		240	240	287	3				<10		.26	.82	1.79
13 13		188	191	233	0				<10 10		.05	.47 .45	.59 .59
MAY			146	170		10.0							
08 JUL	9.24	143	146	178	0	12.2	.3	35.4	250	235	.07	1.3	1.23
31 SEP		210	210	257	0				<10		<.04	.37	<.05
04		199	198	242	0				<10		<.04	.37	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV								_					
07 JAN	<.008	.06	.05	.09	250	K240	140	4	38	1.2	.04	<.1	<6
16 MAR	.043	<.06	<.02	E.04	33	К4	110						
13 13 MAY	.015 .015	E.04 E.04	E.01 E.01	E.05 .06	K17 	K25 	K33						
08 JUL	.037	.09	.07	.38	6100	7300	3200	6	3040	1.6	E.02	E.1	<6
31 SEP	<.008	E.05	.05	.09	300	280	640						
04	<.008	E.06	.05	.09	480	K740	K2100						

06896187 MIDDLE FORK GRAND RIVER NEAR GRANT CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (μg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
07	E7	<.08	<1	579	<.01	E.2	3	3
JAN								
16								
MAR								
13								
13								
MAY								
08	<10	E.05	6	26.6	.02	1.1	2	18
JUL								
31								
SEP								
04								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 06896320 EAST FORK GRAND RIVER AT ALLENDALE, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $40^{\circ}28^{\circ}53^{\circ}$ , long  $94^{\circ}19^{\circ}06^{\circ}$ , in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.32, T.66 N., R.30 W., Worth County, Hydrologic Unit 10280101, located in Allendale on Highway 46, approximately 1.6 mi west of the junction of Highway NN and State Highway 46. DRAINAGE AREA.--211 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 07	1025	ENVIRONM	ENTAL	5.3	11.0	105	8.2	454	12.0	220	64.3	13.5	5.71
JAN 16	1425	ENVIRONM	ENTAL	3.2	16.0	115	8.4	529	.5				
MAR 13	1300	ENVIRONM	ENTAL	14	12.1	107	8.5	417	8.5				
MAY 08	1420	ENVIRONM	ENTAL	75	8.3	99	8.1	349	22.0	160	47.3	8.97	4.64
JUL 31	1410	ENVIRONM	ENTAL	.32	8.4	125	8.2	462	34.5				
SEP 04	1415	ENVIRONM	ENTAL	<.01	11.6	141	8.1	587	23.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV													
07 JAN	8.53	209	210	256	0	8.47	. 2	30.6	12	278	<.04	.41	<.05
16 MAR		257	258	305	5				<10		<.04	.30	.10
13 MAY		173	171	198	5				<10		<.04	.38	<.05
08 JUL	6.41	144	142	174	0	6.47	.2	29.5	190	215	.07	1.2	.64
31 SEP		212	212	250	4				<10		<.04	.54	.10
04		263	265	323	0				19		<.04	.61	1.99
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV	. 000	T 04	0.0	0.0	70	60	240	4	110	1 0	T 00	. 1	.6
07 JAN	<.008	E.04	.02	.08	70	60	340	4	118	1.2	E.02	<.1	<6
16 MAR	<.008	<.06	<.02	<.06	K4	K2	66						
13 MAY	<.008	<.06	<.02	E.04	K14	Кб	K48						
08 JUL	.029	.07	.05	. 29	K800	1300	1300	6	2400	1.6	E.03	<.1	E3
31 SEP	.012	E.03	<.02	E.05	40	70	99						
04	.023	E.05	.04	.11	98	160	K230						

# 06896320 EAST FORK GRAND RIVER AT ALLENDALE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
07	13	<.08	<1	346	< .01	<.3	4	3
JAN								
16								
MAR								
13								
MAY								
08	E6	E.07	4	15.5	.01	1.1	5	12
JUL								
31								
SEP								
04								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

### 06897000 EAST FORK BIG CREEK NEAR BETHANY, MO

LOCATION.--Lat 40°17'50", long 94°01'36", in SE  $\frac{1}{4}$  sec.34, T.64 N., R.28 W., Harrison County, on right bank 50 ft downstream from bridge on old U.S. Highway 69, 2 mi north of Bethany, and 4 mi upstream from confluence with West Fork.

DRAINAGE AREA.--95  $\mathrm{mi}^2$ , approximately.

PERIOD OF RECORD.--April 1934 to September 1972, October 1996 to September 1999, October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 854.74 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

		DISCHAF	RGE, CUBIO	C FEET PER		WATER YE MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.1 1.8 1.8 1.9	7.6 7.2 7.9 7.8 7.1	4.2 3.9 3.6 3.4 3.0	e0.30 e0.28 e0.28 e0.28 e0.30	e1.5 e1.4 e1.5 e1.0	e3.5 e2.5 e1.5 e2.0 e3.0	9.4 7.6 5.9 4.5 3.7	53 40 29 22 18	11 9.5 8.4 7.6 7.5	1.3 0.79 0.71 1.0 1.7	2.6 2.6 2.4 2.2 2.0	0.44 0.20 0.07 0.00 0.00
6 7 8 9 10	11 11 7.3 3.4 5.2	6.6 7.3 7.2 6.4 6.1	2.7 2.6 2.0 2.5 1.7	e0.35 e0.48 e0.65 e0.90	e1.9 e2.5 e3.5 e4.8 8.6	e3.5 3.9 4.0 6.3 14	2.8 2.7 5.4 41 36	681 552 154 82 63	7.4 7.0 6.5 5.7 5.3	0.75 0.68 0.89 1.2	2.5 3.7 3.7 2.9 2.5	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	4.9 3.3 4.1 6.0 6.4	5.7 5.4 5.3 5.2 5.2	2.0 2.3 3.0 3.2 3.3	1.7 2.5 3.1 3.3 3.5	9.2 11 10 8.7 7.4	9.7 7.8 7.0 6.4 5.9	23 485 124 59 36	950 1310 377 230 108	5.7 294 177 e34 e22	72 82 34 11 7.6	2.3 2.1 3.8 3.6 3.0	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	7.5 7.1 5.1 3.6 2.9	5.1 4.8 4.5 4.8 5.2	3.5 3.1 2.9 3.1 3.2	3.3 3.2 3.1 3.1 2.9	5.8 6.0 5.3 6.4 8.8	5.3 4.9 4.6 4.2 4.0	24 18 21 347 92	57 43 31 22 16	e12 e8.3 e6.1 4.7 4.6	6.5 6.0 5.3 4.5 4.1	3.0 3.2 3.5 3.3	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	3.3 6.7 38 55 21	5.0 4.9 4.5 5.1 6.0	3.5 3.1 e2.8 e2.0 e1.0	3.0 3.0 3.1 2.9 3.0	7.2 6.4 5.3 4.7 4.4	3.8 3.5 2.9 3.5 4.4	150 103 61 64 127	13 15 17 14 45	4.0 2.8 2.1 2.0 1.8	3.8 4.0 4.1 3.5 3.6	11 4.9 e7.5 6.1 4.3	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	13 10 8.6 7.9 8.2 8.4	5.8 5.2 4.9 5.0 4.5	e0.50 e0.45 e0.40 e0.34 e0.35 e0.30	3.1 3.1 3.3 3.2 e1.8 e1.2	e4.0 e3.0 e3.5 	4.5 4.7 2.6 24 43	63 291 651 167 81	43 25 19 14 12 9.9	2.1 3.1 2.1 1.7 1.7	3.5 3.4 3.4 3.1 2.7 2.5	3.2 2.3 1.7 1.2 0.88 0.70	0.00 0.00 0.00 0.00 0.00
MEAN MAX MIN IN.	9.06 55 1.8 0.11	5.78 7.9 4.5 0.07	2.38 4.2 0.30 0.03	2.11 3.5 0.28 0.03	5.19 11 1.0 0.06	7.06 43 1.5 0.09	104 651 2.7 1.22	163 1310 9.9 1.98	22.3 294 1.7 0.26	9.38 82 0.68 0.11	3.64 14 0.70 0.04	0.02 0.44 0.00 0.00
STATIST	ICS OF MO	NTHLY MEA	AN DATA FO	OR PERIOD	OF RECORD	, BY WAT	•	·				
MEAN MAX (WY) MIN (WY)	26.9 140 1960 0.00 1938	27.8 313 1962 0.00 1938	15.6 78.1 1945 0.00 1938	24.6 240 1946 0.00 1939	66.3 349 1937 0.00 1938	86.8 341 1960 0.00 1956	82.3 305 1944 0.00 1956	78.7 332 1945 0.00 1956	111 932 1947 0.00 1956	32.6 284 1969 0.00 1936	15.6 94.1 1959 0.00 1936	32.8 425 1961 0.00 1937
SUMMARY	STATISTI	CS	FOR	R 2001 CAL	ENDAR YEA	R	FOR 2002	WATER YE	AR	FOR F	PERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME DAILY MEA DAILY MEA SEVEN-DAY I PEAK FLO I PEAK STA ANEOUS LO RUNOFF (II ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		1390 0.30 0.48  12.46 256 12 2.5	Feb 2 Dec 3 Dec 2	1	27.9 1310 0.00 0.00 1780 9.91 0.00 3.99 42 4.1 0.35	Sep 4- Sep May May	12 30 4 12 12 12	50.4 111 2.27 6200 0.00 0.00 8120 17.65 0.00 7.21 90 4.2	Jun Several Several Jun Jun Several	Years 6 1947 6 1947

e Estimated

### 06897500 GRAND RIVER NEAR GALLATIN, MO

LOCATION.--Lat 39°55'37", long 93°56'33", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.16, T.59 N., R.27 W., Daviess County, Hydrologic Unit 10280101, on left bank 100 ft upstream from bridge on State Highway 6, 50 ft downstream from Chicago, Rock Island and Pacific Railroad Company Bridge, 1.0 mi northeast of Gallatin, 6.0 mi upstream from Honey Creek, and at mile 90.0.

DRAINAGE AREA. -- 2,250 mi<sup>2</sup>.

PERIOD OF RECORD. -- June 1921 to current year.

REVISED RECORDS.--WSP 786: 1933-34. WSP 1280: 1922. WDR MO-83-1: 1981. WDR MO-93-1: 1991(M).

GAGE.--Water-stage recorder. Datum of gage is 707.56 ft above National Geodetic Vertical Datum of 1929. This figure supercedes figures published in reports from 1982 to 1992. Prior to Jan. 31, 1922, nonrecording gage at site 100 ft upstream at datum 5.00 ft lower; Jan. 31, 1922, to Nov. 15, 1936, nonrecording gage at site about 1,100 ft upstream at datum 4.83 ft lower; Nov. 16, 1936, to Nov. 14, 1937, nonrecording gage; Nov. 15, 1937, to Sept. 21, 1961, water-stage recorder on center pier of highway bridge at datum 5.00 ft lower; Sept. 22-27, 1961, nonrecording gage at railroad bridge 100 ft upstream at datum 5.00 ft lower; Sept. 28, 1961, to Mar. 4, 1964, water-stage recorder on downstream side of left bank pier of highway bridge and wire-weight gage for stages below 7.2 ft at datum 5.00 ft lower; Mar. 5, 1964, to Mar. 5, 1982, at present site at datum 5.00 ft. higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 45 ft, July 8, 1909, from floodmarks.

		DISCHAR	GE, CUBIC	C FEET PEI	R SECOND, DAILY	WATER YE		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	107	77	e24	e55	e45	363	1130	440	89	39	28
2	59	100	75	e23	e50	e50	250	828	347	79	35	26
3	55	103	73	e23	e50	e42	186	634	288	73	34	23
4	53	99	72	e22	e40	e35	150	498	250	71	32	21
5	62	94	72	e23	e55	e50	127	400	228	70	31	20
6	61	91	72	e24	72	e60	111	3240	212	67	30	19
7	96	89	74	e30	77	80	103	10000	199	76	29	18
8	141	84	71	e39	70	110	112	4320	183	72	27	16
9	134	80	69	40	81	276	450	2170	166	62	26	14
10	112	77	68	45	117	334	750	1590	155	57	25	14
11	94	74	67	45	139	238	575	12200	166	55	26	13
12	123	73	71	52	148	196	1320	26100	2150	63	26	13
13	138	73	88	56	146	180	2780	13800	2290	179	32	13
14	129	74	98	62	137	162	1100	5470	1180	130	36	14
15	138	73	107	58	130	142	606	3350	600	168	32	15
16	286	74	105	67	132	124	410	2340	360	152	38	14
17	361	73	96	55	135	111	312	1720	247	116	47	13
18	234	73	89	58	133	101	247	1380	197	92	40	14
19	162	70	84	67	137	94	211	1160	166	78	37	18
20	125	71	80	57	158	87	1170	923	152	69	50	20
21	108	68	75	63	183	81	1460	746	131	63	53	19
22	97	68	73	68	191	75	2340	625	120	59	61	17
23	148	68	70	69	176	71	1420	548	107	56	99	17
24	790	72	e50	74	151	66	803	557	99	52	76	17
25	662	79	e38	66	128	68	553	1950	90	50	78	15
26 27 28 29 30 31	369 234 176 145 126 114	83 88 88 85 81	e28 e27 e25 e27 e28 e24	66 68 72 72 51 44	106 76 e56 	76 78 88 107 311 528	932 996 5080 4200 1800	1840 1130 992 746 722 677	85 88 110 119 108	52 56 52 53 46 42	83 61 48 41 36 31	15 14 13 13 13
MEAN	180	81.1	66.8	51.1	112	131	1031	3348	368	77.4	43.2	16.6
MAX	790	107	107	74	191	528	5080	26100	2290	179	99	28
MIN	53	68	24	22	40	35	103	400	85	42	25	13
IN.	0.09	0.04	0.03	0.03	0.05	0.07	0.51	1.72	0.18	0.04	0.02	0.01
MEAN MAX (WY) MIN (WY)	821 8965 1974 3.09 1957	856 8613 1929 8.18 1939	525 5463 1983 6.15 1939	482 4212 1932 3.94 1940	YEARS 1921 1003 6196 1962 5.61 1939	1735 8760 1979 18.7 1938	1998 7906 1927 12.0 1956	2032 14820 1995 15.4 1956	2355 22670 1947 51.9 1988	1611 33930 1993 13.3 1936	521 4136 1987 7.05 1936	1044 11610 1926 10.2 1955
SUMMARY	Y STATISTI	CS	FOR 2	2001 CALEI	NDAR YEAR	I	FOR 2002 W	ATER YEAR		WATER YE	ARS 1921	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANT ANNUAL 10 PERC 50 PERC	MEAN I ANNUAL ME ANNUAL ME DAILY ME DAILY ME DEVENDAY M PEAK FLC RUNOFF (I CENT EXCER CENT EXCER	AN A		25800 21 28  10.32 5220 363 60	Feb 25 Jan 1 Dec 25		463 26100 13 Sev 14 28700 27.22 12 2.79 813 80 25	May 12 veral Days Sep 11 May 12 May 12 Sep 30		1247 5740 129 85500 2.0 2.6 89800 41.50 2.0 7.53 2540 218 28	Aug Oct Jul Jul	1993 1938 24 1993 30 1980 23 1956 7 1993 7 1993 30 1980

e Estimated

## 06898100 THOMPSON RIVER NEAR MOUNT MORIAH, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $40^{\circ}20^{\circ}11^{\circ}$ , long  $93^{\circ}46^{\circ}02^{\circ}$ , in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.24, T.64 N., R.26 W., Harrison County, Hydrologic Unit 10280102, on Highway 136 approximately 15 mi east of junction I-35 and Highway 136, 1.5 mi northeast of Mt. Moriah.

DRAINAGE AREA.--891 mi<sup>2</sup>, including Panther Creek.

PERIOD OF RECORD.--November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 08	0920	ENVIRONM	ENTAL	41	10.8	98	8.4	467	10.5	210	64.2	12.5	4.43
JAN 17	1030	ENVIRONM	ENTAL	14	13.2	94	8.0	524	.5				
MAR 14	0945	ENVIRONM	ENTAL	91	11.2	98	8.2	411	7.5				
MAY 09	1045	ENVIRONM	ENTAL	223	9.8	103	8.3	386	16.5	170	53.0	10.3	4.06
AUG 01 01	0910 0911	ENVIRONM REPLICAT		26 	6.8	89 	8.1	442	27.0				
SEP 03	1445	ENVIRONM	ENTAL	17	8.1	111	8.2	474	30.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)		CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 08	11.2	194	192	228	3	11.4	.2	40.8	14	270	<.04	.30	<.05
17 MAR		218	217	265	0				<10		.11	.36	.38
14 MAY		152	150	183	0				43		E.03	.74	1.20
09 AUG	7.83	159	156	190	0	8.58	.3	34.6	347	230	<.04	1.3	.56
01		183	183	223	0				30 13		<.04 <.04	.54 .56	<.05 <.05
SEP 03		193	193	235	0				176		<.04	.80	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 08	<.008	<.06	<.02	E.06	K32	130	230	4	109	.6	E.03	<.1	<6
JAN 17 MAR	.009	<.06	<.02	E.03	K1	кз	К9						
MAR 14 MAY	.020	E.03	<.02	.10	К8	K13	150						
09 AUG	.008	.06	.04	.39	2500	3600	5500	2	3580	1.2	<.04	E.1	<6
01 01	<.008 <.008	<.06 E.03	E.01 E.01	.12	73 	150 	140						
SEP 03	<.008	E.03	E.01	.30	K69	210	97						

# 06898100 THOMPSON RIVER NEAR MOUNT MORIAH, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (μg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
08	15	<.08	<1	424	<.01	E.2	3	4
JAN								
17								
MAR								
14								
MAY								
09	<10	<.08	6	30.5	.02	1.0	<1	19
AUG								
01								
01								
SEP								
03								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 06898800 WELDON RIVER AT PRINCETON, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $40^{\circ}24^{\circ}03^{\circ}$ , long  $93^{\circ}36^{\circ}10^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.28, T.65 N., R.24 W., Mercer County, Hydrologic Unit 10280102, approximately 1 mi west of Princeton on US Highway 136.

DRAINAGE AREA. -- 452 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1999 to current year.

DATE	TIME	SAMPL: TYPE	E	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 06	1330	ENVIRONM	ENTAL	36	10.3	108	8.2	409	16.5	180	53.4	10.9	6.01
JAN 15	1355	ENVIRONM	ENTAL	20	14.2	101	8.2	516	.5				
MAR 12	1320	ENVIRONM	ENTAL	101	12.0	102	8.2	382	7.0				
MAY 07 07	1400 1515	ENVIRONM BLANK	ENTAL	527	7.7	89	7.9	287	21.0	130	40.0	7.26 <.008	4.70 <.10
JUL 30	1405	ENVIRONM	ENTAL	17	9.1	136	8.4	393	35.5				
AUG 15	1225	ENVIRONM		8.7	10.4	135	8.3	425	27.0				
SEP 05	0845	ENVIRONM		3.3	7.3	81	8.1	489	19.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 06	10.0	166	168	206	0	11.6	.2	29.5	18	248	<.04	.52	.08
JAN 15		218	221	270	0				<10		.10	.41	.16
MAR 12		143	143	175	0				114		.09	1.1	1.45
MAY 07 07	5.24 E.06	116	116	141	0	6.37 <.30	.2	22.4	210 <10	177 <10	.04	1.7 <.10	.61 <.05
JUL 30		160	160	188	4				14		<.04	.47	<.05
AUG 15		180	180	220	0				20		<.04	.49	<.05
SEP 05		209	210	256	0				13		<.04	.40	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 06	<.008	E.05	.04	.10	K26	77	K40	5	177	.9	E.02	<.1	<6
JAN 15 MAR	E.004	<.06	<.02	<.06	K15	К4	46						
12 MAY	.016	E.04	.02	.21	К90	160	360						
07 07 JUL	.025 <.008	.07 <.06	.05 <.02	.50 <.06	K19000 	K18000	4700 	8 4	4940 6	1.1	<.04 <.04	.2	E3 <6
30 AUG	<.008	<.06	<.02	.07	150	100	140						
15 SEP	<.008	<.06	<.02	.07	160	270	160						
05	<.008	<.06	<.02	E.04	К9	130	140						

# 06898800 WELDON RIVER AT PRINCETON, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
06	<10	<.08	<1	176	<.01	E.2	2	2
JAN								
15								
MAR								
12								
MAY								
07	17	<.08	9	7.4	.03	. 9	<1	24
07	<10	<.08	<1	<2.0	<.01	<.3	2	<1
JUL								
30								
AUG								
15								
SEP								
05								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

### 06899500 THOMPSON RIVER AT TRENTON, MO

LOCATION.--Lat  $40^{\circ}04^{\circ}10^{\circ}$ , long  $93^{\circ}38^{\circ}16^{\circ}$  in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.19, T.61 N., R.24 W., Grundy County, Hydrologic Unit 10280102, at downstream side of bridge pier in Trenton, 2.6 mi downstream from Weldon River, and at mile 25.2.

DRAINAGE AREA. -- 1,720 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--June 1921 to September 1923, August 1928 to current year. June 1921 to September 1923, published as "near Hickory". Monthly discharge only for some periods, published in WSP 1310. Gage-height records collected in vicinity 1910-14 and since 1925 in reports of the National Weather Service.

REVISED RECORDS.--WSP 1116: 1945(M). WDR MO-83-1: 1981.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 721.87 ft above National Geodetic Vertical Datum of 1929.
June 25, 1921, to Aug. 26, 1923, nonrecording gage at two sites 12 mi downstream (by old channel route) at different datums;
Aug. 1, 1928, to Sept. 15, 1930, nonrecording gage at site 0.8 mi upstream from current site at current datum; Sept. 16,
1930, to May 31 1945, nonrecording gage at site 0.7 mi downstream at datum 3.46 ft lower; June 1, 1945, to Dec. 7, 1959,
nonrecording gage at same site and datum; Dec. 8, 1959 to Oct. 27, 1998 at site 0.8 mi upstream, at same datum.

REMARKS.--Records good except for estimated daily discharges and those above  $6,000~{\rm ft}^3/{\rm s}$ , which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 30.7 ft, July 6, 1909, present site and datum, from information by local residents; discharge, 50,000 ft<sup>3</sup>/s, determined by the U.S. Army Corps of Engineers, occurred before new channel was dredged.

		DISCHARG	E, CUBIC	FEET PER	SECOND, W			ER 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	196	82	e34	e60	e60	295	880	392	93	58	46
2	61	187	82	e33	e52	e65	222	669	354	89	54	43
3	56	148	76	e33	e50	e55	175	531	317	89	52	38
4	56	126	72	e31	e60	e47	145	445	291	87	51	34
5	77	114	70	e32	e65	e65	128	387	275	86	47	33
6	170	106	68	e35	e75	e90	118	7000	261	85	49	33
7	179	101	71	e45	96	127	115	4120	247	81	66	36
8	123	94	75	51	79	276	142	1600	228	84	82	35
9	98	92	74	51	100	374	1280	1970	216	81	71	31
10	89	91	71	57	135	616	1100	1400	205	84	65	28
11	82	88	66	65	130	496	545	16200	203	99	58	27
12	103	87	74	69	150	345	3950	19700	301	163	53	27
13	121	81	104	68	161	280	1490	6620	613	129	65	29
14	88	79	128	77	154	242	649	3380	348	103	72	32
15	113	77	124	66	155	215	461	2080	248	133	59	32
16	208	75	112	76	163	186	344	1530	245	178	111	28
17	121	73	98	58	159	164	284	1820	290	130	70	26
18	91	74	89	61	157	150	239	1490	220	102	63	26
19	73	71	83	74	183	141	1260	1150	188	91	54	30
20	64	69	79	68	306	132	758	914	166	83	85	36
21	64	72	78	77	374	122	2300	756	150	77	278	35
22	191	78	79	73	261	117	1320	647	139	73	204	30
23	575	77	71	82	212	110	661	584	131	73	161	28
24	1320	82	e45	72	183	112	440	578	122	64	110	38
25	629	86	e35	68	159	110	825	1390	117	60	81	39
26 27 28 29 30 31	388 260 199 163 139 125	88 84 81 79 80	e34 e34 e32 e35 e37 e35	74 80 82 82 56 48	109 e90 e70 	106 118 131 182 996 494	490 2770 6770 2240 1220	1520 1060 790 648 530 442	110 110 104 101 97	62 69 63 74 64 63	64 54 50 48 47 48	34 31 32 30 30
MEAN	196	94.5	71.4	60.6	141	217	1091	2672	226	90.7	78.4	32.6
MAX	1320	196	128	82	374	996	6770	19700	613	178	278	46
MIN	56	69	32	31	50	47	115	387	97	60	47	26
IN.	0.14	0.06	0.05	0.04	0.09	0.15	0.73	1.85	0.15	0.06	0.05	0.02
MEAN MAX (WY) MIN (WY)	582 4678 1974 11.1 1957	MTHLY MEAN 650 6280 1962 9.53 1956	470 4209 1983 6.48 1956	456 3682 1946 4.74 1956	924 4378 1962 13.0 1956	1595 5765 1979 17.6 1938	1735 5580 1973 10.7 1956	1790 8757 1995 10.2 1956	1817 16460 1947 13.9 1956	1078 18860 1993 6.00 1934	509 3990 1959 9.32 1936	679 8443 1992 12.9 1955
SUMMARY	STATISTI	CS	FOR 2	001 CALEN	DAR YEAR		FOR 2002	WATER YEAR		FOR P	ERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY PEAK FLO PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS DS		20100 19 22  11.40 4280 281 62	Jun 6 Jan 1,2 Jan 1		417 19700 26 29 33800 15.31 25 Se 3.39 704 91 36	May 12 Sep 17,18 Sep 12 May 11 May 11 p 16-18,23		1022 3576 117 73800 1.0 1.7 95000 25.70 1.0 8.32 2350 214	Jun 1 Aug Jun Jun	1993 1934 6 1947 17 1956 4 1934 6 1947 6 1947 17 1956

e Estimated

# 06899580 NO CREEK NEAR DUNLAP, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $40^{\circ}06^{\circ}19^{\circ}$ , long  $93^{\circ}29^{\circ}29^{\circ}$ , in SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.4, T.61 N., R.23 W., Grundy County, Hydrologic Unit 10280102, on upstream side of bridge on County Road N approximately 0.6 mi west of Dunlap.

DRAINAGE AREA.--34.0 mi<sup>2</sup>.

PERIOD OF RECORD. -- November 1997 to current year.

DATE	TIME	SAMPL: TYPE	E	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 23 NOV	1350	ENVIRONM	ENTAL	38	6.0	64	7.8	229	16.0				
29	1245	ENVIRONM	ENTAL	.28	12.8	102	8.2	410	4.5	170	48.2	12.9	6.36
DEC 13 13	1440 1441	ENVIRONM REPLICAT			12.3	102	8.3	414	6.0				
FEB 28	1400	ENVIRONM	ENVIRONMENTAL		14.6	105	8.1	359	1.0				
MAR 21	1010	ENVIRONM	ENTAL	2.1	13.7	105	7.9	386	4.0				
APR 18	1130	ENVIRONM	ENTAL	4.3	9.1	107	8.2	371	21.5				
MAY 23	0915	ENVIRONM	ENTAL	2.4	8.5	91	8.0	361	17.0	160	45.1	10.6	2.94
JUN 13 28	1120 1340	ENVIRONM ENVIRONM		.53 .07	8.8 12.8	107 167	8.2 8.5	414 507	23.5 27.5	170	49.9	12.3	4.04
JUL													
23 23 AUG	1130 1130	ENVIRONM BLANK	ENTAL	.01	11.7	140	8.3	738 	23.0	260 	71.8 .02	19.3 <.008	22.6 <.10
22	1340	ENVIRONM	ENTAL	1.0	5.1	64	7.8	217	25.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 23 NOV 29	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23 NOV	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23 NOV 29 DEC 13	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  124 189 190	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> )(00419)  125 185 190	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> )(00447)  0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  386 78 20	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.2 1.1	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .10 <.05
OCT 23 NOV 29 DEC 13 13 FEB 28 MAR 21	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  124  189  190	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  125 185 190	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 153 226 226	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 3	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  386 78 20 16	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.2  1.1 .45 .47	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .10 <.05 <.05
OCT 23 NOV 29 DEC 13 13 FEB 28	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 124 189 190 	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 125 185 190 	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 153 226 226 	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 3 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  386 78 20 16 22	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.2  1.1 .45 .47	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .10 <.05 <.05 <.05
OCT 23 NOV 29 DEC 13 13 FEB 28 MAR 21 APR 18 MAY 23	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  124  189  190   123  141	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 125 185 190  121	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 153 226 226  148 174	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> )(00447)  0 0 0 0 3 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  386 78 20 16 22 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.2  1.1 .45 .47 .52 .43	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .10 <.05 <.05 <.05 .64 <.05
OCT 23 NOV 29 DEC 13 13 FEB 28 MAR 21 APR 18 MAY 23 JUN 13	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  124  189  190   123  141  134  144  175	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 125 185 190  121 143 132 143 175	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  153 226 226 148 174 161 174 214	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  386 78 20 16 22 <10 36 <10 20	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.2  1.1 .45 .47 .52 .43 .67 .46	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .10 <.05 <.05 <.05 .64 <.05 .07 E.04
OCT 23 NOV 29 DEC 13 13 FEB 28 MAR 21 APR 18 MAY 23 JUN	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  124  189  190  123  141  134  144	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 125 185 190  121 143 132	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 153 226 226  148 174 161	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.84    7.27 6.94	RIDE, DIS- SOLVED (mg/L as F) (00950) 22 .2 .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  25.9    36.5 31.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  386 78 20 16 22 <10 36 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.2  1.1 .45 .47 .52 .43 .67	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .10 <.05 <.05 <.05 .64 <.05 .07

# 06899580 NO CREEK NEAR DUNLAP, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 23	<.008	.12	.10	.72	K37000	K29000	K31000						
NOV 29	<.008	E.04	.02	.19	К3900	K4000	1900	1	1500	1.4	<.04	<.1	<6
DEC 13 13	<.008 <.008	E.06 E.06	.05	.10 .10	K470 	800	2600						
FEB 28	.012	<.06	<.02	.07	K7	К3	80						
MAR 21	<.008	<.06	<.02	E.03	K47	34	48						
APR 18	.008	E.04	.03	.12	К93	150	223						
MAY 23	<.008	E.04	.02	.07	160	130	230	2	112	1.3	<.04	<.1	<6
JUN 13 28	E.005	E.05 .06	.04	.10	670 510	1100 350	600 290	2	336	1.8	<.04	<.1	<6 
JUL 23 23 AUG	.018 <.008	.06 <.06	E.01 <.02	.17 <.06	380 	320 	190 	2 <1	164 <2	7.1 <.2	.04 <.04	<.1 <.1	<6 <6
22	.128	E.04	<.02	.91	K15000	K16000	4000						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV	3											
		9	E6	<.08	4	521	E.01	E.3	<1	6			
	1	3 3											
	FEB												
	MAR												
	APR												
	MAY		E6	<.08	<1	109	<.01	.5	1	2			
	JUN		E6	<.08	М	129	<.01	.5	4	4			
		8											
		3	75 <10	.09 <.08	M <1	3580 <2.0	<.01 <.01	.9 <.3	<1 <1	4 6			
		2											

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

# 06899950 MEDICINE CREEK AT HARRIS, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°18'32", long 93°20'15", in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.35, T.64 N., R.22 W., Sullivan County, Hydrologic Unit 10280103, on the left bank on upstream side of the bridge on State Highway E, approximately 0.6 mi east of Harris.

DRAINAGE AREA.--192 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1999 to current year.

DATE	TIME	SAMPLI TYPE	Ε	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 25	1450	ENVIRONM	ENTAL	33	10.3	96	8.0	285	11.0				
NOV 28	0910	ENVIRONM	ENTAL	3.4	12.8	97	8.0	468	3.0	220	65.1	14.5	4.00
DEC 12	1055	ENVIRONM	ENTAL	6.2	12.6	103	8.0	466	5.5				
JAN 03 08	1200 1610	ENVIRONM ENVIRONM		4.6 5.0	9.8 12.1	69 87	7.5 7.5	608 534	.5 .5	 240	 70.9	 15.7	 3.15
FEB 27	0955	ENVIRONM	ENTAL	9.9	13.7	96	8.1	460	.5				
MAR 19 APR	1645	ENVIRONM	ENTAL	18	10.9	98	8.1	448	9.5				
17 MAY	0945	ENVIRONM	ENTAL	68	8.8	98	8.1	364	19.0				
21 JUN	1420	ENVIRONM	ENTAL	38	9.1	99	8.1	404	18.5	190	55.1	11.6	3.63
28 JUL	1105	ENVIRONM	ENTAL	5.6	9.4	116	7.9	495	24.5				
24 AUG	1030	ENVIRONM	ENTAL	3.6	7.7	92	7.8	487	23.4	210	62.8	13.3	3.52
21 SEP	1345	ENVIRONM	ENTAL	17	9.7	124	8.3	414	26.0				
10	0938	ENVIRONM	ENTAL	1.4	7.6	89	7.9	467	21.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 25 NOV	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 25 NOV 28 DEC	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 98	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02
OCT 25 NOV 28 DEC 12 JAN	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 99 192	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 98 191	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  121 234 223	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  118 12	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 .05	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) 1.4 .33	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02 <.05
OCT 25 NOV 28 DEC 12 JAN 03	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 98	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02
OCT 25 NOV 28 DEC 12 JAN 03 08 FEB 27	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 99 192 184	WATER UNFLITCD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 98 191 182	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  121 234 223 194	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  118 12 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 .05 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) 1.4 .33 .28	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02 <.05
OCT 25 NOV 28 DEC 12 JAN 03 08 FEB	DIS- SOLVED (mg/L as Na) (00930)  15.5  18.7	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 99 192 184 162 313	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 98 191 182 159 311	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 121 234 223 194 379	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.86  10.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  58.4  64.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  118 12 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 .05 <.04 .15 .12	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) 1.4 .33 .28 .48 .41	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02 <.05 .07 E.04
OCT 25 NOV 28 DEC 12 JAN 03 08 FEB 27 MAR 19	DIS- SOLVED (mg/L as Na) (00930)  15.5  18.7	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  99 192 184 162 313 172	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 98 191 182 159 311	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  121 234 223 194 379 209	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.86  10.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  58.4  64.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  118 12 <10 <10 12	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 .05 <.04 .15 .12 E.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) 1.4 .33 .28 .48 .41	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02 <.05 .07 E.04 .68
OCT 25 NOV 28 DEC 12 JAN 03 08 FEB 27 MAR 19 APR 17	DIS- SOLVED (mg/L as Na) (00930)  15.5  18.7	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 99 192 184 162 313 172	WATER UNFLITCH TO THE LOCATION OF THE LOCATION	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 121 234 223 194 379 209 207	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  8.86  10.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  58.4  64.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  118 12 <10 <10 12 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  308 340	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 .05 <.04 .15 .12 E.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.4 .33 .28 .48 .41 .57 .40	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02 <.05 .07 E.04 .68 <.05
OCT 25 NOV 28 DEC 12 JAN 03 08 FEB 27 MAR 19 APR 17 MAY 21	DIS- SOLVED (mg/L as Na) (00930)  15.5 18.7 10.7	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  99 192 184 162 313 172 172 134 156 180	WATER UNFLITED TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  98 191 182 159 311 172 170 134 154 182	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  121 234 223 194 379 209 207 163 188 222	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.86  10.5   7.37	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  .2  .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  58.4  64.3  43.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  118 12 <10 <10 12 <10 130 38 13	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  308 340 262	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 .05 <.04 .15 .12 E.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.4 .33 .28 .48 .41 .57 .40 .92 .51 .47	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02 <.05 .07 E.04 .68 <.05 .47 .54 <.05
OCT 25 NOV 28 DEC 12 JAN 03 08 FEB 27 MAR 19 APR 17 MAY 21 JUN 28	DIS- SOLVED (mg/L as Na) (00930)  15.5 18.7 10.7	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  99 192 184 162 313 172 172 134 156	WATER UNFLITED 1T FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  98 191 182 159 311 172 170 134 154	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  121 234 223 194 379 209 207 163 188	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.86  10.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  58.4  64.3   43.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  118 12 <10 <10 12 <10 130 38	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  308 340 262	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 .05 <.04 .15 .12 E.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.4 .33 .28 .48 .41 .57 .40 .92 .51	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02 <.05 .07 E.04 .68 <.05 .47
OCT 25 NOV 28 DEC 12 JAN 03 08 FEB 27 MAR 19 APR 17 MAY 21 JUN 28 JUL 24	DIS- SOLVED (mg/L as Na) (00930)  15.5 18.7 10.7	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  99 192 184 162 313 172 172 134 156 180	WATER UNFLITED TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  98 191 182 159 311 172 170 134 154 182	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  121 234 223 194 379 209 207 163 188 222	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.86  10.5   7.37	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  .2  .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  58.4  64.3  43.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  118 12 <10 <10 12 <10 130 38 13	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  308 340 262	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 .05 <.04 .15 .12 E.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.4 .33 .28 .48 .41 .57 .40 .92 .51 .47	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.17 E.02 <.05 .07 E.04 .68 <.05 .47 .54 <.05

# 06899950 MEDICINE CREEK AT HARRIS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT													
25	.012	.13	.10	.37	K4800	K5000	1400						
NOV													
28	<.008	<.06	<.02	E.03	220	160	140	5	83	. 6	E.02	<.1	<6
DEC	000	0.5	0.0	0.5		100	210						
12 JAN	<.008	<.06	<.02	<.06	K153	120	310						
03	<.008	<.06	<.02	<.06	27	21	К9						
08	<.008	<.06	<.02	<.06	K17	к9	K19	4	20	. 6	.07	<.1	<6
FEB													
27	.008	<.06	E.01	.07	K18	K10	52						
MAR													
19	<.008	<.06	E.01	.06	<1	K10	K35						
APR	010	D 06	٥٦	0.4	***1.00	0.77	211						
17 MAY	.010	E.06	.05	.24	K100	97	311						
21	.009	E.04	.03	.10	71	120	110	2	429	. 8	E.02	<.1	<6
JUN	.005	2.01	.05	.10	, -	120		-	127		2.02		- 0
28	<.008	< .06	<.02	E.06	210	260	210						
JUL													
24	<.008	<.06	<.02	.08	K170	130	160	3	195	1.0	.04	<.1	<6
AUG													
21	<.008	<.06	.02	.14	600	660	510						
SEP 10	<.008	<.06	E.01	E.05	K26	590	220						
TO	<.008	<.00	E.UI	E.U5	r/20	590	220						

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
OCT								
25 NOV								
28	E9	<.08	<1	1940	<.01	. 3	3	4
DEC	2,			1710		.5	3	-
12								
JAN 03								
08	114	<.08	<1	4110	<.01	E.2	3	3
FEB								
27 MAR								
19								
APR								
17 MAY								
MAY 21	<10	E.04	1	97.2	< . 01	. 7	<1	4
JUN								
28								
JUL 24	15	<.08	<1	1460	<.01	E.2	1	3
AUG	15	1.00	`-	1100	1.01	5.5	_	3
21								
SEP 10								
±0								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.  $<--Numeric \ result$  is less than the value shown.

### 06900050 MEDICINE CREEK AT LAREDO, MO

LOCATION.--Lat  $40^{\circ}01'36"$ , long  $93^{\circ}26'09"$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.12, T.60 N., R.23 W., Grundy County, Hydrologic Unit 10280103, on downstream side of Highway E bridge, approximately 0.5 mi east of Laredo.

DRAINAGE AREA.--355 mi<sup>2</sup>.

PERIOD OF RECORD.--November 14, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		, WATER Y LY MEAN V	EAR OCTOBER ALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 12 11 12 18	13 18 16 14 12	14 12 12 12 12	e6.4 e6.2 e6.1 e5.9 e6.1	e9.0 e8.7 e8.3 e9.0 e10	e35 e25 e15 e15 e20	137 110 87 67 57	243 181 142 117 100	69 59 51 49 47	e14 13 13 13 12	12 9.7 8.1 7.5 7.7	6.0 5.7 5.5 5.3 5.1
6 7 8 9 10	16 16 19 16 15	12 12 12 12 12	12 12 12 12 11	e6.3 e6.1 e6.1 e6.5 e7.0	16 17 15 32 96	e40 50 64 124 152	50 52 69 764 e479	3720 2440 651 1790 978	41 37 34 31 34	12 12 12 12 12	13 13 9.0 7.7 7.2	5.0 5.0 4.8 5.0 4.8
11 12 13 14 15	15 15 14 17 37	11 11 11 10 9.5	11 14 26 35 58	9.2 10 11 12 11	62 55 59 58 61	106 83 71 60 52	e238 e572 e746 e287 e189	7040 9050 1550 555 324	36 39 36 56 44	17 32 34 17 12	7.0 6.6 11 15	4.6 4.6 5.6 5.5
16 17 18 19 20	56 22 16 14 14	10 12 11 11	38 29 22 19	12 11 11 12 11	57 46 44 96 207	44 37 33 32 31	e153 e141 e126 e117 e117	230 192 171 144 119	36 28 26 25 22	11 9.9 9.5 9.3 9.2	89 30 12 10 77	5.0 5.0 5.5 6.1 6.7
21 22 23 24 25	14 20 194 348 120	9.3 9.1 9.1 9.5	16 16 14 e8.5 e8.0	13 12 17 12 11	248 132 93 76 62	26 21 22 23 26	1460 466 236 160 313	102 91 95 126 518	20 20 18 18 17	8.7 8.3 9.1 8.7 8.5	50 29 33 17 11	6.7 6.6 5.8 4.9 4.7
26 27 28 29 30 31	65 43 28 19 15	19 14 12 10 11	e7.5 e7.5 e7.5 e8.0 e7.5 e6.5	14 18 17 16 9.6 e9.2	e40 e25 e25 	27 27 36 52 409 238	246 2220 3290 800 350	465 223 148 116 95 80	16 e17 e19 e18 e16	8.3 8.3 9.1 12 10	8.7 7.8 7.0 6.6 6.4 6.2	4.4 4.4 4.5 4.8 4.2
MEAN MAX MIN	40.2 348 11	11.9 19 9.1	16.0 58 6.5	10.4 18 5.9	59.5 248 8.3	64.4 409 15	470 3290 50	1026 9050 80	32.6 69 16	12.7 34 8.3	17.6 89 6.2	5.21 6.7 4.2
STATIST	ICS OF MOI	NTHLY MEAN	N DATA FOR	R WATER Y	EARS 200	01 - 2002	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	40.2 40.2 2002 40.2 2002	11.9 11.9 2002 11.9 2002	11.0 16.0 2002 5.97 2001	75.9 141 2001 10.4 2002	515 971 2001 59.5 2002	462 860 2001 64.4 2002	487 504 2001 470 2002	909 1026 2002 793 2001	670 1307 2001 32.6 2002	132 252 2001 12.7 2002	24.1 30.5 2001 17.6 2002	12.9 20.6 2001 5.21 2002
SUMMARY	STATISTIC	CS	FOR	2001 CAL	ENDAR YE	EAR	FOR 2002	WATER YEA	IR.	WATER YEA	ARS 2001	- 2002
LOWEST A HIGHEST LOWEST ANNUAL S MAXIMUM MAXIMUM INSTANTA 10 PERCE 50 PERCE	MEAN ANNUAL ME ANNUAL ME ANNUAL ME DAILY MEA DAILY MEA SEVEN-DAY PEAK FLOT PEAK STAC ANTEOUS LOV ENT EXCEEL ENT EXCEEL	AN AN N MINIMUM W GE W FLOW DS		7780 3.8 4.2  925 62 11	Jun Jan Jan	2	9050 4.2 4.6 13900° 17.95 4.0 Sep 1 193 16 6.4	May 1 Sep 3 Sep 2 May 1 May 1 2,26,27,3	0 14 2 .2	148 148 9050 3.3 3.6 13900 <sup>a</sup> 17.95 3.0 193 16	Dec 1 Dec 1 May 1 May 1	2002 2002 12 2002 15 2000 13 2000 12 2002 12 2002 5 2000

e Estimated  $^{\rm a}$  From rating extended above 8,510  ${\rm ft^3/s.}$ 

# 06900100 LITTLE MEDICINE CREEK NEAR HARRIS, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°19'02", long 93°22'52", in SW  $^{1}\!\!/_4$  SE  $^{1}\!\!/_4$  NW  $^{1}\!\!/_4$  sec.28, T.64 N., R.22 W., Mercer County, Hydrologic Unit 10280103, on the left bank on upstream side of bridge on State Highway E, approximately 1.7 mi west of Harris.

DRAINAGE AREA.--66.5 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1997 to current year.

DATE	TIME	SAMPL: TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 25	1030	ENVIRONM	ENTAL	7.5	10.9	91	8.0	310	6.5				
NOV 28	1210	ENVIRONM	ENTAL	1.5	13.8	105	8.2	453	3.0	200	57.3	12.9	4.88
DEC 12	1420	ENVIRONM	ENTAL	1.7	13.2	110	8.3	472	6.0				
JAN 08	1155	ENVIRONM	ENTAL	.38	7.3	53	7.3	599	.5	270	80.1	17.5	3.84
FEB 27 27	1425 1426	ENVIRONM REPLICAT		1.8	12.5	90 	7.8	460 	1.0				
MAR 19	1315	ENVIRONM	ENTAL	2.0	12.2	113	8.4	434	10.5				
APR 17	1220	ENVIRONM	ENTAL	13	8.8	108	8.2	397	24.0				
MAY 21	1205	ENVIRONM	ENTAL	9.1	10.4	108	8.2	422	16.5	200	58.5	12.1	3.67
JUN 28	0840	ENVIRONM	ENTAL	2.0	8.6	99	8.0	497	20.5				
JUL 24 AUG	1300	ENVIRONM	ENTAL	.59	10.1	135	8.1	485	29.0	210	62.1	12.6	4.54
21	0910	ENVIRONM	ENTAL	3.1	7.4	89	8.1	388	23.0				
SEP 10	1330	ENVIRONM	ENTAL	.15	11.6	153	8.1	424	28.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 25 NOV	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 25 NOV 28 DEC	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) 54 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05
OCT 25 NOV 28 DEC 12 JAN	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 112 185	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 110 182 184	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  54 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 <.04 <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.1 .27	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05
OCT 25 NOV 28 DEC 12 JAN 08 FEB	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 110 182 184 371	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) 54 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05 <.05
OCT 25 NOV 28 DEC 12 JAN 08	DIS- SOLVED (mg/L as Na) (00930)  15.0  21.4	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 112 185 182 372	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 110 182 184	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 134 223 225 452	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  11.1	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  49.8  70.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  54 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) 1.1 .27 .25	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05
OCT 25 NOV 28 DEC 12 JAN 08 FEB 27	DIS- SOLVED (mg/L as Na) (00930)  15.0  21.4	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 112 185 182 372 171	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 110 182 184 371 171	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 134 223 225 452 209	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> )(00447)  0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  11.1  12.1	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  49.8  70.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  54 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 <.04 <.04 .39 .13	GEN, AM- MONIA + ORGANIC TOTTAL (mg/L as N) (00625)  1.1 .27 .25 .67	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05 <.05 .13 .78
OCT 25 NOV 28 DEC 12 JAN 08 FEB 27 27 MAR 19	DIS- SOLVED (mg/L as Na) (00930)  15.0  21.4	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  112 185 182 372 171	WATER UNFLTRD 1T FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 110 182 184 371 171	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 134 223 225 452 209	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  11.1	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  49.8  70.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  54 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 <.04 <.04 .39 .13 .12	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.1 .27 .25 .67 .46 .45	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05 <.05 .13 .78 .76
OCT 25 NOV 28 DEC 12 JAN 08 FEB 27 27 MAR 19 APR 17	DIS- SOLVED (mg/L as Na) (00930)  15.0  21.4	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 112 185 182 372 171 	WATER UNFLTRD TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  110  182  184  371  171   158	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 134 223 225 452 209 	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0   5	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  11.1  12.1	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  49.8  70.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  54 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  280 382	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 <.04 <.04 .39 .13 .12 E.02	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.1 .27 .25 .67 .46 .45 .34	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05 <.05 .13 .78 .76 <.05
OCT 25 NOV 28 DEC 12 JAN 08 FEB 27 27 MAR 19 APR 17 MAY 21	DIS- SOLVED (mg/L as Na) (00930)  15.0 21.4 10.9	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  112 185 182 372 171 158 140 166 197	WATER UNFLTRD TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  110  182  184  371  171   158  141  165  197	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  134 223 225 452 209 184 172 201 240	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 5 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  11.1  12.1   7.37	RIDE, DIS- SOLVED (mg/L as F) (00950) 2222	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  49.8  70.1   46.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  54 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  280 382 267	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 <.04 <.04 .39 .13 .12 E.02 <.04 E.03 .05	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.1 .27 .25 .67 .46 .45 .34 .60 .38 .41	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05 <.05 .13 .78 .76 <.05 .43 .29 E.03
OCT 25 NOV 28 DEC 12 JAN 08 FEB 27 27 MAR 19 APR 17 MAY 21 JUN 28	DIS- SOLVED (mg/L as Na) (00930)  15.0 21.4 10.9	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  112 185 182 372 171 158 140 166	WATER UNFLTRD TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 110 182 184 371 171 158 141 165	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  134 223 225 452 209 184 172 201	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 5 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  11.1  12.1   7.37	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  49.8 70.1 46.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)(00530)  54 <10 <10 <10 <10 <10 <10 <11 11 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  280 382 267	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 <.04 <.04 .39 .13 .12 E.02 <.04 E.03	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.1 .27 .25 .67 .46 .45 .34 .60 .38	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05 <.05 .13 .78 .76 <.05 .43
OCT 25 NOV 28 DEC 12 JAN 08 FEB 27 27 MAR 19 APR 17 MAY 21 JUN 28 JUL 24	DIS- SOLVED (mg/L as Na) (00930)  15.0 21.4 10.9	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  112 185 182 372 171 158 140 166 197	WATER UNFLTRD TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  110  182  184  371  171   158  141  165  197	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  134 223 225 452 209 184 172 201 240	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 5 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  11.1  12.1   7.37	RIDE, DIS- SOLVED (mg/L as F) (00950) 2222	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  49.8  70.1   46.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  54 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  280 382 267	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 <.04 <.04 .39 .13 .12 E.02 <.04 E.03 .05	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.1 .27 .25 .67 .46 .45 .34 .60 .38 .41	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.06 <.05 <.05 .13 .78 .76 <.05 .43 .29 E.03

# 06900100 LITTLE MEDICINE CREEK NEAR HARRIS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 25	E.005	.08	.06	.20	910	1000	2500						
NOV 28	<.008	<.06	<.02	<.06	K45	K55	110	3	18	. 4	<.04	<.1	<6
DEC 12	<.008	<.06	<.02	<.06	150	170	250						
JAN 08	E.005	<.06	<.02	<.06	K10	к7	45	4	14	.6	.07	<.1	<6
FEB 27 27	.008	<.06 <.06	<.02 <.02	E.03	K3	K2 	K8						
MAR 19	<.008	<.06	<.02	<.06	K10	K21	40						
APR 17	.009	.06	.05	.13	190	130	340						
MAY 21	E.006	E.04	.02	.07	62	56	110	2	201	.8	<.04	<.1	<6
JUN 28	<.008	<.06	E.01	E.04	930	к970	900						
JUL 24	E.005	<.06	E.01	E.04	140	170	190	1	56	.9	E.03	<.1	<6
AUG 21	E.007	E.03	E.01	.10	1100	1300	1500						
SEP 10	<.008	<.06	<.02	E.04	K160	190	170						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT		DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV	5	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 2 DEC	5 8	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 2 DEC 1 JAN 0	5 8 2	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB	5 8 2 8	DIS- SOLVED (µg/L as Fe) (01046)  59  561	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1530 6400	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  E.3  .3	DIS- SOLVED (µg/L as Zn) (01090)  2  3	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 2	5 8 2 8 7	DIS- SOLVED (µg/L as Fe) (01046)  59  561	DIS- SOLVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051) <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1530 6400	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  E.3 	DIS- SOLVED (µg/L as Zn) (01090)  2  3	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 5 2			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 2 2 MAR 1 APR	5 8 2 8 7	DIS- SOLVED (µg/L as Fe) (01046)  59  561	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1530 6400	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  E.3  .3	DIS- SOLVED (µg/L as Zn) (01090)  2  3	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 2 2 MAR 1 APR	5 8 2 8 7 9	DIS- SOLVED (µg/L as Fe) (01046)  59  561	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1530 6400	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  E.3  .3	DIS- SOLVED (µg/L as Zn) (01090)  2  3	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 2 MAR 1 APPR 1 MAY 2 JUN	5 8 2 8 7 7 7	DIS- SOLVED (µg/L as Fe) (01046)  59  561 	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1530 6400 	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  E.33	DIS- SOLVED (µg/L as Zn) (01090)  2  3	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 2 MAR 1 APPR 1 MAY 2 JUN	5 8 2 8 7 7 9	DIS- SOLVED (µg/L as Fe) (01046)  59  561  	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1530 6400	TOTAL RECOV- ERABLE (μg/L as Hg) (71900) <.01 <.01 <.01 <	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  E.3  .3	DIS- SOLVED (µg/L as Zn) (01090)  2  3  	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 Z MAR 1 APR 1 MAY 2 JUN 2 JUL	5 8 2 8 7 9 1 8	DIS- SOLVED (µg/L as Fe) (01046)  59  561   <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 <1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1530 6400 97.8	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  E.338	DIS- SOLVED (µg/L as Zn) (01090)  2  3   <1	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2 3			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 2 MAR 1 APR 1 MAY 2 JUN 2 JUN 2 AUG	5 8 2 7 7 9 1 8 4	DIS- SOLVED (µg/L as Fe) (01046)  59  561   <-10	DIS- SOLVED (µg/L as Pb) (01049) <.08 <.08 <- <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 <1 <1 <1 <1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1530 6400 97.8	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  E.338	DIS- SOLVED (µg/L as Zn) (01090)  2  3    <1	TOTAL RECOV- REABLE (µg/L as Zn) (01092)  5 2 3			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.  $<--Numeric \ result$  is less than the value shown.

## 06900900 LOCUST CREEK NEAR UNIONVILLE, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $40^{\circ}28^{\circ}23^{\circ}$ , long  $93^{\circ}07^{\circ}37^{\circ}$ , in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.35, T.66 N., R.20 W., Putnam County, Hydrologic Unit 10280103, on left bank on upstream side of bridge on Highway HH approximately 3.2 mi west of State Highway 5, 9.4 mi south of Unionville.

DRAINAGE AREA.--77.5 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1999 to current year.

DATE	TIME	SAMPLE TYPE	:	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 24	0950	ENVIRONME	NTAL	59	8.1	82	7.8	286	13.5				
NOV 27	1250	ENVIRONME	NTAL	4.4	16.0	129	8.4	486	5.0	230	66.8	15.7	4.69
DEC 11	1350	ENVIRONME	NTAL	3.1	14.6	113	8.4	491	3.5				
JAN 02	1525	ENVIRONME		.66	11.4	81	7.7	718	.5				
09 FEB	0955	ENVIRONME		.94	9.5	69	7.7	680	.5	330	93.6	22.4	4.36
26 MAR	1350	ENVIRONME		9.2	14.6	104	8.2	464	.5				
20 APR	1040	ENVIRONME		8.8	12.5	103	8.3	474	6.0				
16 MAY	1315	ENVIRONME		27	8.8	106	8.2	425	22.5				
22	1305 1330	ENVIRONME BLANK	NTAL	16 	9.6 	101	8.1	433	16.5 	200	59.9 .02	12.3	3.45 <.10
JUN 27	1145	ENVIRONME	NTAL	1.6	8.3	103	8.2	481	24.5				
JUL 25	0945	ENVIRONME	NTAL	.52	6.9	82	8.1	497	22.0	220	64.6	14.0	4.77
AUG 20	1410	ENVIRONME	NTAL	14	7.8	95	8.1	322	23.5				
SEP 09	1330	ENVIRONME	NTAL	.05	9.6	123	8.1	451	26.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	FET FIELD (mg/L as CaCO <sub>3</sub> )	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 24 NOV	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 24 NOV 27 DEC	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  97 210	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 96 209	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  192 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .90 <.05
OCT 24 NOV 27 DEC 11 JAN	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 97 210	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 96 209 207	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  117 248 247	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 4	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  192 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.7 .37	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 <.05
OCT 24 NOV 27 DEC 11 JAN 02 09	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  97 210	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  192 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .90 <.05
OCT 24 NOV 27 DEC 11 JAN 02 09 FEB 26	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 97 210 210 324	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 96 209 207 321	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 117 248 247 392	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 4 3 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  192 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 .11	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) 1.7 .37 .31	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 <.05 <.05
OCT 24 NOV 27 DEC 11 JAN 02 09 FEB 26 MAR 20	DIS- SOLVED (mg/L as Na) (00930)  15.2  26.0	WATER UNFLITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 97 210 210 324 435	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 96 209 207 321 435	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 117 248 247 392 531	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 4 3 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.94  13.3	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  50.3  70.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  192 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 .11 .10	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) 1.7 .37 .31 .58 .48	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 <.05 <.05
OCT 24 NOV 27 DEC 11 JAN 02 09 FEB 26 MAR 20 APR 16	DIS- SOLVED (mg/L as Na) (00930)  15.2  26.0	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  97 210 210 324 435	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 96 209 207 321 435 170	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 117 248 247 392 531 207	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 4 3 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.94  13.3	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  50.3  70.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  192 <10 <10 <10 28	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 .11 .10 E.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.7 .37 .31 .58 .48	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 <.05 <.05 .06 .07
OCT     24 NOV     27 DEC     11 JAN     02 09 FEB     26 MAR     20 APR     16 MAY     22	DIS- SOLVED (mg/L as Na) (00930)  15.2  26.0	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 97 210 210 324 435 171 188	WATER UNFLITD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 96 209 207 321 435 170 187	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 117 248 247 392 531 207 228	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 4 3 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.94  13.3	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  50.3   70.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  192 <10 <10 <10 28 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 .11 .10 E.04 E.03	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.7 .37 .31 .58 .48 .53 .39	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 <.05 <.05 .06 .07 .76 <.05
OCT 24 NOV 27 DEC 11 JAN 02 09 FEB 26 MAR 20 APR 16 MAY 22 22 JUN 27	DIS- SOLVED (mg/L as Na) (00930)  15.2 26.0 11.4	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  97 210 210 324 435 171 188 159 172	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 96 209 207 321 435 170 187 161	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 117 248 247 392 531 207 228 196 210	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 4 3 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.94  13.3   7.07	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  .2  .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  50.3  70.7   44.4	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  192 <10 <10 <10 28 <10 120 15	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 .11 .10 E.04 E.03 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.7 .37 .31 .58 .48 .53 .39 .51 .48	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 <.05 <.05 .06 .07 .76 <.05 .26 .30
OCT	DIS- SOLVED (mg/L as Na) (00930)  15.2 26.0 11.4 <.09	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  97 210 210 324 435 171 188 159 172	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 96 209 207 321 435 170 187 161	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  117 248 247 392 531 207 228 196 210	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 4 3 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.94   13.3   7.07 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  .2  .2  .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  50.3  70.7   44.4 <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)(00530)  192 <10 <10 <10 28 <10 120 15 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  306 436 277 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 .11 .10 E.04 E.03 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.7 .37 .31 .58 .48 .53 .39 .51 .48 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 <.05 .06 .07 .76 <.05 .26 .30 <.05
OCT 24 NOV 27 DEC 11 JAN 02 09 FEB 26 MAR 20 APR 16 MAY 22 JUN 27 JUL	DIS- SOLVED (mg/L as Na) (00930)  15.2 26.0 11.4 <.09	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  97 210 210 324 435 171 188 159 172 184	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 96 209 207 321 435 170 187 161 172 	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 117 248 247 392 531 207 228 196 210 	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 4 3 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.94  -13.3   7.07 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  50.3 70.7 44.4 <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  192 <10 <10 <10 28 <10 120 15 <10 13	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  306 436 277 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 .11 .10 E.04 E.03 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.7 .37 .31 .58 .48 .53 .39 .51 .48 <.10 .54	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 <.05 .06 .07 .76 <.05 .26 .30 <.05

# 06900900 LOCUST CREEK NEAR UNIONVILLE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 24	.009	.11	.09	.43	K21000	11000	K36000						
NOV 27	<.008	<.06	<.02	E.04	120	K74	K100	3	36	.7	<.04	<.1	<6
DEC 11	<.008	<.06	<.02	<.06	K32	К32	120						
JAN 02 09	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	K17 K10	K17 K12	K18 65	 4	 14	 .7	 E.03	 <.1	 <6
FEB 26	.009	<.06	<.02	.06	K10	K27	100						
MAR 20	<.008	E.04	.04	E.04	K45	73	46						
APR 16	E.006	E.05	.04	.11	K210	280	290						
MAY 22 22	E.006	<.06 <.06	.02 <.02	.07 <.06	140 	190 	160 	2 <1	221 <2	.8	<.04 <.04	<.1 <.1	<6 <6
JUN 27	E.007	<.06	E.01	E.06	390	300	280						
JUL 25	.010	<.06	.02	.08	240	230	900	<1	347	1.3	E.03	<.1	<6
AUG 20 SEP	E.005	E.03	.02	.18	2700	2100	4800						
09	E.006	<.06	E.02	.07	250	180	460						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2	4											
	NOV 2	, :7	19	<.08	<1	535	<.01	E.3	2	3			
		1											
		2											
	FEB		38	<.08	<1	2440	<.01	.5	1	1			
	2 MAR	16 L											
	2 APR	0											
	1 MAY	6											
		2	E7 <10	<.08 <.08	M <1	147 <2.0	<.01 <.01	.7 <.3	<1 <1	2 <1			
	JUN												
	JUL		<10	<.08	<1	702	<.01	. 4	<1	4			
	AUG												
	SEP												

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 06901500 LOCUST CREEK NEAR LINNEUS, MO

LOCATION.--Lat 39°53'45", long 93°14'10", in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.34, T.59 N., R.21 W., Linn County, Hydrologic Unit 10280103, on right bank on upstream side of county road, 1 mi upstream from Boyer bridge, 1.5 mi upstream from Strawberry and Couch Creeks, 3 mi northwest of Linneus, and 5 mi downstream from West Locust Creek.

DRAINAGE AREA. -- 550 sq mi<sup>2</sup>.

REVISED RECORDS. -- WSP 896: 1939.

PERIOD OF RECORD.--October 1928 to September 1972, July 2000 to current year. Prior to April 1929 monthly discharge only published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 692.61 ft above National Geodetic Vertical Datum of 1929. Prior to July 26, 1956, nonrecording gage at same site and datum.

REMARKS.--Records fair except for July through September and estimated daily discharges, which are poor. U.S.G.S satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1909 reached a discharge of about 18,000 ft<sup>3</sup>/s, determination by the Corps of Engineers.

DISCHARGE	E, CUBIC	FEET PER				2001 TO	SEPTEMBE	R 2002		
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
34 30 31 30 28	20 20 19 e18 e18	e15 e16 e14 e11 e13	e17 e18 e17 e16 e17	e45 e55 e50 e40 e50	122 90 73 59 50	458 350 280 229 185	145 120 103 91 85	e21 e19 e19 e19 e20	11 12 11 9.9 9.7	9.7 9.2 8.6 7.2 6.8
26 26 24 23 23	18 18 18 18 17	e15 e15 e17 e17 e19	e19 e23 27 47 119	e64 e83 e96 281 300	45 43 49 316 742	4480 4350 1330 2010 1330	77 69 62 56 59	e18 e15 e13 e15 e35	20 19 14 11	6.4 6.2 5.6 5.6
23 21 24 22 22	17 20 33 45 45	e21 e22 26 28 26	109 123 110 113 110	183 132 113 100 87	296 184 521 275 174	7820 17100 9370 2560 1190	81 119 66 75 91	e36 e65 e43 e26 e19	9.4 9.1 12 12 13	5.5 5.4 5.2 5.8 6.4
21 21 22 22 21	45 36 31 28 25	28 25 30 32 30	113 104 90 193 628	77 67 55 51 48	126 111 94 205 122	838 657 541 423 345	75 56 44 37 35	15 15 13 13 12	90 55 33 22 78	5.6 7.3 7.3 7.3 7.2
21 20 20 21 22	23 24 23 e20 e17	30 27 20 22 24	446 236 e148 e110 e98	45 41 38 37 42	2570 1020 426 287 382	285 230 200 299 1520	29 26 24 22 20	11 12 10 9.9	103 50 48 31 24	6.4 6.2 5.5 5.0 4.8
24 23 21 22 22	e15 e16 e15 e16 e16 e14	17 18 19 21 e18 e17	e83 e79 e52 	43 42 46 50 94 250	291 3480 5490 1610 692	1260 516 438 487 268 187	18 17 e17 e22 e23	11 10 10 14 13	18 14 12 11 9.9 9.7	4.9 5.1 4.9 4.4 4.2
23.7 34 20 0.05	22.8 45 14 0.05	21.1 32 11 0.04	117 628 16 0.22	87.3 300 37 0.18	665 5490 43 1.35	1985 17100 185 4.16	58.8 145 17 0.12	18.5 65 9.9 0.04	25.5 103 9.1 0.05	6.17 9.7 4.2 0.01
THLY MEAN	DATA FOR	R PERIOD (	OF RECORD	, BY WAT	ER YEAR (WY	7)				
198 2272 1932 2.38 1957	140 803 1943 2.70 1938	189 1027 1946 1.29 1940	328 1557 2001 3.61 1957	481 1898 1961 6.47 1957	591 2103 1944 5.92 1956	502 2647 1935 23.2 1938	705 5820 1947 4.72 1934	277 2903 1958 0.40 1934	130 1812 1932 0.67 1936	160 2079 1970 1.97 1955
CS	FOR	2001 CAL	ENDAR YEA	R	FOR 2002 V	VATER YEA	R	FOR 1	PERIOD OF	RECORD
CAN N N N MIN MINIMUM FLOW ICHES) SS		13100 6.0 7.4   13.95 1270 80	Jan	3	260 17100 4.2 4.8 19200 24.48 3.8 6.42 306 26	Sep 3 Sep 2 May 1 May 1	0 4 2 2	0.00 38000 26.93 0.00 Jul 7.83 594 43	l 17-Aug Jul Jun Jun	17 1934 6 1947 6 1947
	NOV  34 30 31 30 28 26 26 24 23 23 23 21 24 22 21 21 21 20 20 21 21 20 20 21 21 22 22 21 21 20 20 21 21 22 22 21 21 20 20 21 22 24 23 21 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 22 24 23 21 22 22 22 24 23 21 22 22 23 21 20 20 20 21 22 23 24 23 21 22 22 22 24 23 21 22 22 22 24 23 21 22 22 23 24 23 21 22 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 20 20 20 21 21 22 22 24 23 21 22 22 24 23 21 22 22 24 23 21 20 20 20 21 21 22 22 24 23 21 20 20 20 21 21 22 22 24 23 21 20 20 20 21 21 22 22 24 23 21 20 20 20 21 21 22 22 24 23 21 20 20 20 21 21 22 22 24 23 34 20 0.05 STHLY MEAN  198 2272 1932 2.38 1957 2.5 SAN N N MINIMUM INIMUM INIMU	NOV DEC  34 20 30 20 31 19 30 e18 28 e18 26 18 26 18 24 18 23 18 23 17 21 20 24 33 22 45 21 45 21 45 21 36 22 31 22 28 21 25 21 23 20 23 21 e20 22 e17 24 e15 23 e16 21 e15 22 e16 22 e17 24 e15 23 e16 21 e15 22 e16 21 e15 22 e16 22 e16 21 e15 22 e16 22 e16 21 e15 22 e16 22 e16 22 e16 21 e15 22 e16 22 e16 22 e16 21 e15 22 e16 21 e15 22 e16 22 e16 21 e15 22 e16 21 e15 22 e16 22 e16 21 e15 22 e16 21 e15 22 e16 22 e16 21 e15 22 e16 21 e15 22 e16 22 e16 22 e16 21 e15 22 e16 22 e16 22 e16 21 e15 22 e16 22 e16 21 e15 22 e16 22 e16 22 e16 23 e16 24 e15 25 e16 25 e16 26 e16 27 e16 28 e18 28 e1	NOV DEC JAN  34 20 e15 30 20 e16 31 19 e14 30 e18 e11 28 e18 e13 26 18 e15 26 18 e15 26 18 e15 24 18 e17 23 17 e19 23 17 e19 23 17 e19 23 17 e21 21 20 e22 24 33 26 22 45 28 22 45 26 21 45 28 21 45 28 21 36 25 22 31 30 22 28 32 21 25 30 21 e20 23 21 e20 22 22 e17 24  24 e15 17 23 e16 21 24 e15 19 22 e16 21 22 e16 21 22 e16 e18 21 e15 19 22 e16 21 22 e16 21 22 e16 21 23 a1 0.05 0.05 0.04  ETHLY MEAN DATA FOR PERIOD 6  STAN SIN 13100 IN 189 277 1932 1943 1946 2.38 2.70 1.29 1957 1938 1940  ES FOR 2001 CALI  SES SES FOR 2001 CALI  SES SES FOR 2001 CALI  SES SES SES SES SES SES SES SES SES SE	NOV DEC JAN FEB  34 20 e15 e17 30 20 e16 e18 31 19 e14 e17 30 e18 e11 e16 28 e18 e13 e17  26 18 e15 e23 24 18 e17 27 23 18 e17 47 23 17 e19 119  23 17 e21 109 21 20 e22 123 24 33 26 110 22 45 28 113 22 45 26 110 21 45 28 113 22 45 26 110 21 45 28 113 22 45 26 110 21 45 28 113 22 1 20 e22 123 24 33 26 120 22 45 26 110 21 45 28 13 21 36 25 104 22 31 30 90 22 28 32 193 21 25 30 628  21 23 30 446 20 24 27 236 20 23 20 e148 21 e20 22 e110 22 e17 24 e98  24 e15 17 e83 23 e16 18 e79 21 e15 19 e52 22 e16 e18 23 7 22 8 21 1 17 34 45 32 628 20 14 11 16 0.05 0.05 0.04 0.22  ETHLY MEAN DATA FOR PERIOD OF RECORD  198 140 189 328 277 293 1943 1946 2001 2 38  270 1.29 3.61 1957 1938 1940 1957  ES FOR 2001 CALENDAR YEA  SEN WIN HALL STAN AND AND AND AND AND AND AND AND AND A	NOV DEC JAN FEB MAR  34 20 e15 e17 e45 30 20 e16 e18 e55 31 19 e14 e17 e50 30 e18 e11 e16 e40 28 e18 e13 e17 e50  26 18 e15 e23 e83 24 18 e17 27 e96 26 18 e17 47 281 23 18 e17 47 281 23 17 e19 119 300  23 17 e21 109 183 21 20 e22 123 132 24 33 26 110 113 22 45 28 113 100 22 45 26 110 87  21 45 28 113 100 22 45 26 110 87  21 45 28 113 77 21 36 25 104 67 22 231 30 90 55 22 28 32 193 51 21 25 30 628 48  21 23 30 446 45 20 24 27 236 41 20 22 e17 24 e98 42  24 e15 17 e83 43 23 e16 18 e79 42 24 e15 19 e52 46 22 e16 21 50 22 e16 e18 94 21 e15 19 e52 46 22 e16 e18 94 21 e17 22 803 1027 1557 1898 1932 1943 1946 2001 1961 23 27 28 21 1 117 87.3 34 45 32 628 300 34 45 32 628 300 34 45 32 628 300 34 45 32 628 300 35 20 14 11 16 37 20 14 e17 250  23.7 22.8 21.1 117 87.3 34 45 32 628 300 35 20 14 11 16 37 36 22 e16 e18 94 2 e14 e17 250  23.7 22.8 21.1 117 87.3 34 45 32 628 300 35 20 14 11 16 37 36 20 14 11 16 37 37 22.8 21.1 117 87.3 34 45 32 628 300 35 20 14 11 16 37 36 20 14 11 16 37 37 22.8 21.1 117 87.3 34 45 32 628 300 30 1027 1557 1898 1932 1943 1946 2001 1961 2.38 2.70 1.29 3.61 6.47 1957 1938 1940 1957 1957  25 FOR 2001 CALENDAR YEAR  565 26N 26N 27	NOV DEC JAN FEB MAR APR  34 20 e15 e17 e45 122 30 20 e16 e18 e55 90 31 19 e14 e17 e50 73 30 e18 e11 e16 e40 59 28 e18 e13 e17 e50 50  26 18 e15 e19 e64 45 26 18 e15 e23 e83 43 24 18 e17 27 e96 49 23 18 e17 47 281 316 23 17 e19 119 300 742  23 17 e21 109 183 296 21 20 e22 123 132 184 24 33 26 110 113 521 22 45 28 113 100 275 22 45 28 113 100 275 22 45 28 113 100 275 21 36 25 104 67 111 22 31 30 90 55 94 21 25 30 628 48 122  21 23 30 446 45 2570 20 24 27 236 41 1020 20 23 20 e148 38 426 21 e20 22 e110 37 287 21 e20 22 e110 37 287 21 e20 22 e110 37 287 22 28 32 193 51 205 21 25 30 628 48 122  21 23 30 446 45 2570 20 24 27 236 41 1020 20 23 20 e148 38 426 21 e20 22 e110 37 287 22 e16 e18 94 692 22 e16 e18 94 692 23 e16 18 e79 42 3480 24 e15 17 e83 43 291 25 e16 e18 94 692 26 e16 e18 94 692 27 e16 e18 94 692 28 e16 e18 94 692 29 e16 e18 94 692 20 14 11 16 37 43 20 22 e16 e18 94 692 20 14 11 16 37 43 20 20 14 11 16 37 43 21 e15 19 e52 46 5490 22 e16 e18 94 692 23 e16 e18 94 692 24 e15 17 e83 43 291 25 e16 e18 94 692 26 e16 e18 94 692 27 e16 e18 94 692 28 e16 e18 94 692 29 e16 e18 94 692 20 14 11 16 37 43 20 05 0.05 0.04 0.22 0.18 1.35  FITHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (W)  198 140 189 328 481 591 272 803 1027 1557 1898 2103 31 932 1943 1946 2001 1961 1944 2.38 2.70 1.29 3.61 6.47 5.92 1957 1938 1940 1957 1957 1956  ES FOR 2001 CALENDAR YEAR FOR 2002 W  ANN NN 13100 Jun 6 17100  ANN NN 13100 Jun 6 17100	NOV   DEC   JAN   FEB   MAR   APR   MAY	NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN	NOV DEC JAN FEB MAR AFR MAY JUN JUL  34 20 e15 e17 e45 122 458 145 e21 30 20 e16 e18 e55 90 350 120 e19 31 19 e14 e17 e50 73 280 103 e19 30 e18 e11 e16 e40 59 229 91 e19 28 e18 e13 e17 e50 50 185 85 e20 26 18 e15 e23 e63 43 4350 69 e15 26 18 e15 e23 e63 43 4350 69 e15 27 e26 18 e17 27 e26 49 1330 62 e13 23 17 e19 119 300 742 1330 56 e15 23 17 e21 109 183 296 7820 81 e36 24 18 e17 27 e26 49 1330 62 e13 23 17 e21 109 183 296 7820 81 e36 24 13 e17 e27 e19 119 300 742 1330 56 e15 23 17 e21 109 113 521 194 110 119 e65 24 33 26 110 113 521 194 110 119 e65 24 33 26 110 87 174 1190 91 e19 21 45 28 113 100 275 2560 75 e26 22 45 26 110 87 174 1190 91 e19 21 45 28 113 100 275 2560 75 e26 22 13 23 20 e148 48 122 345 35 12 21 22 23 30 446 45 2570 285 29 11 20 23 27 236 41 1020 230 26 12 21 22 23 20 628 48 122 345 35 12 21 22 23 20 e148 38 426 200 24 10 21 22 24 27 236 41 1020 230 26 12 22 24 27 236 41 1020 230 26 12 23 24 27 236 41 1020 230 26 12 24 27 236 41 1020 230 26 12 25 26 17 24 e88 42 382 1520 20 10 24 e15 17 e83 43 201 486 5490 438 e17 10 23 17 e84 688 42 382 1520 20 10 24 e15 17 e83 43 201 486 5490 438 e17 10 23 e16 18 e99 328 481 591 502 705 285 29 11 23 17 e86 28 28 113 37 43 185 17 24 e15 17 e83 43 201 140 47 190 488 e17 10 23 e16 21 23 30 446 5490 438 e17 10 24 e15 17 e83 43 201 140 47 190 488 e17 10 24 e15 17 e83 43 201 140 47 190 488 e17 10 25 e16 22 e16 21 94 692 268 e23 13 21 22 e16 21 950 140 1961 1944 1935 1947 1958 22 e16 21 950 140 1961 1944 1935 1947 1958 23 e16 18 e79 328 481 591 502 705 277 24 e18 60 Jan 3 4 2 2 Sep 30 0.00 Jul 36 60 Jan 3 4 2 Sep 30 0.00 Jul 37 EVAN 181 1100 Jun 6 17100 May 12 2693 0.00 Jul 38  190 120 120 May 12 260 30 Jul 39  190 120 May 12 260 30 Jul 30 120 120 120 120 120 130 1961 1944 1935 1947 1958 21 193 194 1957 1957 1956 1938 1934 1934 25 FOR 2001 CALENDAR YEAR  FOR 200 43 Sep 30 0.00 Jul 38 190 120 120 144 11 16 37 43 185 17 9.99 30 100 Jul 6 17100 May 12 2693 0.00 Jul 30 120 120 120 120 130 130 144 1935 1947 1958 21 120 24 48 48 120 1990 May 12 260 360 1	NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  34 20 e15 e17 e45 122 458 145 e21 111  33 1 9 e14 e18 e55 90 350 120 e19 112  33 1 9 e14 e17 e50 79 229 91 103 e19 112  33 1 9 e14 e17 e50 79 229 91 03 e19 112  34 20 e18 e11 e16 e40 59 229 92 e19 97 70 97 28 e19 97 97  26 18 e15 e19 e64 45 4480 77 e18 20 20 97 24 112  26 18 e15 e23 e83 43 4350 69 e15 19 24 18 e17 27 e96 49 1330 62 e13 14 23 18 e17 47 281 316 2010 56 e15 11 23 11 23 18 e17 47 281 316 2010 56 e15 11 23 11 23 11 23 11 23 11 23 11 23 11 23 11 24 13 30 62 e13 14 23 18 e17 47 281 316 2010 56 e15 11 23 11 23 11 24 31 25 25 25 25 25 25 25 25 25 25 25 25 25

e Estimated

### 06902000 GRAND RIVER NEAR SUMNER, MO

LOCATION.--Lat  $39^{\circ}38^{\circ}25^{\circ}$ , long  $93^{\circ}16^{\circ}25^{\circ}$ , in NE  $\frac{1}{4}$  sec.29, T.56 N., R.21 W., Livingston County, Hydrologic Unit 10280103, near right bank on downstream side of pier of bridge on State Highway 139, 240 ft downstream from Chicago, Burlington and Quincy Railroad Bridge, 2.0 mi southwest of Sumner, 2.5 mi downstream from Locust Creek, and at mile 41.0.

DRAINAGE AREA. -- 6,880 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1923 to current year. Prior to April 1924 monthly discharge only, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 631.18 ft above National Geodetic Vertical Datum of 1929. Prior to July 11, 1926, nonrecording gage at site 200 ft upstream at same datum; July 11, 1926, to July 9, 1939, nonrecording gage at same site and datum; July 10, 1939, to Aug. 8, 1952, water-stage recorder at site 200 ft upstream at same datum; Aug. 9, 1952, to Nov. 12, 1953, nonrecording gage at site 120 ft upstream and at same datum; Nov. 13, 1953, to July 6, 1964, water-stage recorder and nonrecording gage, for stages below 8.3 ft, at site 120 ft upstream and at same datum; July 7, 1964, to May 26, 1965, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 3.2 mi downstream from base gage at datum 631.30 ft above National Geodetic Vertical Datum of 1929; Mar. 15, 1939, to Aug. 4, 1942, auxiliary nonrecording gage at various sites; Aug. 5, 1942, to Dec. 14, 1956, auxiliary nonrecording gage at present site.

REMARKS.--Water-discharge records fair. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 9, 1909, reached a stage of 36.7 ft, from floodmark.

		DISCHARGE,	CUBIC	FEET PER		WATER Y Y MEAN V	EAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	443	475	330	211	262	606	1630	4700	2960	445	361	161
2	419	455	328	200	320	615	1190	3450	2470	418	287	165
3	396	504	323	189	344	510	964	2780	2210	405	244	168
4	374	461	323	186	367	446	813	2200	1560	384	224	145
5	418	434	318	184	347	532	698	1810	1230	364	213	139
6	585	418	315	183	327	600	622	8220	1100	365	193	143
7	569	403	314	183	354	712	575	39600	1100	377	334	134
8	545	387	305	182	380	798	558	22100	981	346	278	131
9	510	378	310	189	576	894	820	13300	915	375	237	123
10	480	363	308	197	1520	1370	4340	10800	841	402	222	122
11	499	357	307	205	2150	1700	3530	22500	856	420	205	110
12	562	352	314	217	1470	1450	2160	64000	7470	508	191	113
13	478	350	345	232	1180	1170	5880	69300	9090	470	175	107
14	464	346	400	237	1000	1020	4750	53700	4900	498	174	111
15	e1340	345	487	246	901	890	2520	28900	2770	490	191	115
16	e3500	329	539	240	832	803	1790	13500	1850	408	259	133
17	3200	319	496	245	781	728	1430	7260	1350	516	1800	116
18	1590	313	443	228	737	666	1230	6140	1140	561	1130	116
19	929	311	396	229	786	623	1060	5420	947	442	570	118
20	687	302	369	238	2540	594	1820	4630	801	380	365	116
21	565	295	351	243	3210	563	5270	3930	705	327	433	120
22	490	306	345	252	2190	533	12500	3400	769	335	694	123
23	476	303	337	252	1450	510	6660	e3000	652	285	804	122
24	1200	327	302	261	1160	504	3660	4200	626	276	619	117
25	2450	321	226	253	982	502	2480	5660	592	291	545	115
26 27 28 29 30 31	1680 1160 861 698 592 527	327 325 324 336 337	240 237 240 248 206 218	243 252 255 257 280 274	845 640 597 	521 521 525 546 594 1530	2670 3210 22100 17700 9550	10400 9090 6560 5820 5300 4610	520 511 450 441 458	294 292 288 614 660 501	417 303 255 211 194 179	95 102 104 91 90
MEAN	925	360	330	227	1009	760	4139	14400	1742	411	397	122
MAX	3500	504	539	280	3210	1700	22100	69300	9090	660	1800	168
MIN	374	295	206	182	262	446	558	1810	441	276	174	90
IN.	0.16	0.06 0	0.06	0.04	0.15	0.13	0.67	2.41	0.28	0.07	0.07	0.02
MEAN MAX (WY) MIN (WY)	2699 20630 1974 37.1 1957	2914 2 29030 15	2024 5440 .983	1932 14750 1932 32.1 1940	3807 19250 1962 57.0 1939	6040 34220 1979 79.5 1957	7101 26680 1973 67.3 1956	6609 43450 1995 130 1956	7452 67270 1947 176 1988	4640 87900 1993 52.8 1934	1707 9194 1987 41.0 1936	3036 28090 1926 62.5 1955
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 1925	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MISTANT ANNUAL 10 PERC 50 PERC	ANNUAL M ANNUAL ME. DAILY ME. DAILY MEA	AN AN N MINIMUM W GE W FLOW NCHES) DS		6395 69100 198 209 12.62 16600 1800 320	Jun Jan Jan		2082 69300 90 102 72600 39.57 90 4.11 4040 475 184	Sep Sep	30	4156 17390 367 166000 10 12 180000 42.52 10 8.21 10200 975 132	Aug Aug Jun Jul	1993 1934 8 1947 12 1934 7 1934 8 1947 10 1993 12 1934

e Estimated

## 06902000 GRAND RIVER NEAR SUMNER, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1962 to June 1963, August 1967 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: January 1974 to September 1981. WATER TEMPERATURE: January 1974 to September 1981.

REMARKS.--National Stream-Quality Accounting Network station October 1967 to September 1993. Ambient Water-Quality Monitoring Network station October 1993 to current year.

DATE	TIME	SAMPLE TYPE	3	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 17	1115	ENVIRONME	NTAL	3210	8.6	75	7.5	263	8.9				
NOV 06	0915	ENVIRONME	INTAL	416	9.3	90	7.3	421	13.0	190	58.3	10.5	4.10
DEC 04	0910	ENVIRONME	NTAL	323	9.7	87	7.8	494	9.5				
JAN 08 08	0910 0955	BLANK ENVIRONME	INTAL	 179	 14.6	 104	 7.4	 L591	 .5	 280	.06 84.2	E.007 15.9	<.10 3.21
FEB 05	0940	ENVIRONME	NTAL	347	13.6	95	7.8	267	.5				
MAR 06	0959	BLANK											
06 APR	1000	ENVIRONME	NTAL	573	13.7	103	7.9	495	2.4				
10 MAY	0820	ENVIRONME	NTAL	4220	8.1	76	7.7	371	11.9				
07 JUN	0950	ENVIRONME	ENTAL	43700	5.2	56	7.2	171	17.6	71	22.3	3.63	.76
10 10 JUL	1400 1401	ENVIRONME REPLICATE		841	7.2	91 	7.9	472 	25.1				
16 AUG	0850	ENVIRONME	ENTAL	393	6.0	77	7.7	443	26.8	200	61.1	12.5	4.14
13 SEP	1335	ENVIRONME	NTAL	175	6.3	79	7.7	465	25.6				
04	1320	ENVIRONME	NTAL	145	7.1	91	7.8	399	27.4				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	FET FIELD (mg/L as CaCO <sub>3</sub> )	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
DATE  OCT 17	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 17 NOV 06	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 17 NOV 06 DEC 04	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 17 NOV 06 DEC 04 JAN 08	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  106 170	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, $NO_2+NO_3$ DIS-SOLVED (mg/L as N) (00631)
OCT 17 NOV 06 DEC 04 JAN 08	DIS- SOLVED (mg/L as Na) (00930)  12.1 	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 106 170 207	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 107 174 206	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 130 212 252	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)  12.1  <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  30.0 E.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) 555 18 16 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.0 .57 .40 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .44 <.05 .06 <.05
OCT 17 NOV 06 DEC 04 JAN 08 08 FEB 05 MAR 06	DIS- SOLVED (mg/L as Na) (00930)  12.1  .30 19.2	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 106 170 207  234	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 107 174 206  235	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 130 212 252  287	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  12.1  <.30 14.8	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  30.0  E.1 49.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  555  18  16 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 <.04 .09	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  2.0 .57 .40 <.10 .40	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .44 <.05 .06 <.05 .21
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 06	DIS- SOLVED (mg/L as Na) (00930)  12.1  .30 19.2	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  106 170 207 234 168	WATER UNFLITD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 107 174 206  235 168	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 130 212 252  287 205	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 00	RIDE, DIS- SOLVED (mg/L as C1) (00940)  12.1  <.30 14.8	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  <.1 .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  30.0  E.1 49.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  555  18  16 <10 <10 12	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 <.04 .09 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.0 .57 .40 <.10 .40 .46	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .44 <.05 .06 <.05 .21 .49
OCT 17 NOV 06 DEC 04 JAN 08 08 FEB 05 MAR 06 APR 10 MAY	DIS- SOLVED (mg/L as Na) (00930)  12.1  .30 19.2	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  106 170 207 234 168 178	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 107 174 206  235 168  179	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 130 212 252  287 205  218	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 00 00	RIDE, DIS- SOLVED (mg/L as C1) (00940)  12.1  <.30 14.8	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  <.1 .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  30.0  E.1 49.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  555  18  16 <10 <10  12  12	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 <.04 .09 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.0 .57 .40 <.10 .40 .4651	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .44 <.05 .06 <.05 .21 .4948
OCT 17 NOV 06 DEC 04 JAN 08 08 FEB 05 MAR 06 06 4PR 10 MAY 07 JUN 10	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  106 170 207 234 168 178 124	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 107 174 206  235 168  179	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 130 212 252  287 205  218	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  12.1  <.30 14.8	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  <.1 .2 	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  30.0  E.1 49.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  555 18 16 <10 <10 12 12 1440	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 <.04 .09 <.0410 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.0 .57 .40 <.10 .40 .4651 3.2	GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)  .44 <.05 .06 <.05 .21 .4948 .63
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 APR 10 MAY 07 JUN 10 10	DIS- SOLVED (mg/L as Na) (00930)  12.130 19.2 4.91	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  106 170 207 234 168 178 124 73 181	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 107 174 206  235 168  179 125 71 181	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  130 212 252 287 205 218 152 87 221	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  12.1 <.30 14.8 3.16	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  <.1 .2   .1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  30.0  E.1 49.7    10.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  555 18 16 <10 <10 12 12 1440 2420	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 .09 <.0410 <.04 .23 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  2.0 .57 .40 <.10 .40 .4651 3.2 7.5	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .44 <.05 .06 <.05 .21 .4948 .63 1.56 <.05
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 06 4PR 10 MAY 07 JUN 10	DIS- SOLVED (mg/L as Na) (00930)  12.1  .30 19.2    4.91	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  106 170 207 234 168 178 124 73 181	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 107 174 206  235 168  179 125 71 181	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  130 212 252 287 205 218 152 87 221	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 00 0 00 0 00	RIDE, DIS- SOLVED (mg/L as C1) (00940)  12.1 <.30 14.8 3.16	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  <.1 .2   .1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  30.0  E.1 49.7   10.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  555  18  16 <10 <10  12  12  1440  2420	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  262 <10 360 401 401	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 <.04 <.04 .09 <.0410 <.04 .23 <.04 <.04	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  2.0 .57 .40 <.10 .40 .4651 3.2 7.5 .93 .74	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .44 <.05 .06 <.05 .21 .4948 .63 1.56 <.05 <.05

# 06902000 GRAND RIVER NEAR SUMNER, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 17	.019	.17	.13	.65	K17000	K22700	K18600						
NOV 06	<.008	<.06	E.01	.10	к34	к38	K22	14	119	.8	.05	<.1	<6
DEC 04	E.005	<.06	<.02	.12	K13	K14	K30						
JAN 08 08	<.008 E.006	<.06 <.06	<.02 <.02	<.06 E.05	 <1	 K7	 K12	7 7	8 33	<.2	<.04	<.1 E.1	<6 <6
FEB 05	.017	<.06	<.02	.08	K13	K12	730						
MAR 06 06	 .019	 <.06	 <.02	 E.05	 <1	 K6	 66						
APR 10	.019	E.04	.03	1.16	4000	5400	7900						
MAY 07	.173	.21	.25	3.12	K11000	K18500	K33700	634	26900	1.3	.10	2.1	E4
JUN 10	<.008	E.05	.03	.20	K2	K10	K42						
JUL	<.008	E.04	.03	.17	K6	K16	K21						
16 AUG	.033	.33	.31	.54	K31	K69	K34	1	758	1.6	.05	E.1	<6
13 SEP 04	<.008	E.03	.02 E.02	.17	280 66	84 155	180 58						
04	<.000	<.00	E.U2	.10	66	155	56						
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
DATE  OCT  17	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (μg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L)	ZINE, WATER, DISS, REC (µg/L)
OCT 17 NOV 06	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 06 DEC 04	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 06 DEC 04 JAN 08	DIS- SOLVED (µg/L as Fe) (01046)  69  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.05  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  215  <2.0	TOTAL RECOV- REABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 9 6	ETHYL ANILINE WAT FIT 0.7 µ GF, REC (µg/L) (82660)  <.002	CHLOR, WATER FLTRD FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 06 DEC 04 JAN	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 06 DEC 04 JAN 08 FEB	DIS- SOLVED (µg/L as Fe) (01046)  69  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.05  <.08 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1	NESE, DIS- SOLVVED (μg/L as Mn) (01056)  215  <2.0 2530	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.01 .01	NIUM, DIS- SOLVED (μg/L as Se) (01145)  <.3  <.3 .5	DIS- SOLVED (µg/L as Zn) (01090)   3	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 9 6 9	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FITTED REC (µg/L) (49260)  <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.010	BHC DIS- SOLVED (µg/L) (34253) <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 109
OCT 17 NOV 06 DEC 04 JAN 08 08 FEB 05 MAR 06	DIS- SOLVED (µg/L as Fe) (01046)  69  <10 100	DIS- SOLVED (µg/L as Pb) (01049)  E.05  <.08 <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)   M <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  215  <2.0 2530	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (μg/L as Se) (01145)  <.3  <.3 .5	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  9 6 9	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004 <.006 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.010 <.004 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .109     <.007 .047
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 APR 10	DIS- SOLVED (µg/L as Fe) (01046)  69  <10 100 	DIS- SOLVED (µg/L as Pb) (01049)  E.05  <.08 <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  M <1 <1	NESE, DIS- SOLVED (μg/L as Mm) (01056)  215  <2.0 2530  	TOTAL RECOV- REABLE (μg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  <.3 .5	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  9 6 9	ETHYL ANILINE 0.7 µ GF, REC (µg/L) (82660)  <.002 <.006 <.006 <.002	CHLOR, WATER FITRD REC (µg/L) (49260)  <.004 <.006 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.010 <.004 <.004	BHC DTS- SOLVED (μg/L) (34253)  <.005  <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 109 <.007 .047
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 06 01 MAR 01 MAR	DIS- SOLVED (µg/L as Fe) (01046)  69  <10 100   714	DIS- SOLVED (µg/L as Pb) (01049)  E.05  <.08 <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  M <1 <1 64	NESE, DIS- SOLVVED (μg/L as Mn) (01056)  215  <2.0 2530   70.6	TOTAL RECOV-ERABLE (μg/L as Hg) (71900)  <.01 <.01 <.15	NIUM, DIS- SOLVED (μg/L as Se) (01145)  <.3  <.3 .5   	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 9 6 9 166	ETHYL ANILINE UNT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.002 <.006	CHLOR, WATER WATER FLITED REC (µg/L) (49260)  <.004 <.006 <.006 .082	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.010 <.004 <.004 <.002	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 109
OCT 17 NOV 06 DEC 04 JAN 08 68 FEB 05 MAR 06 06 4PR 10 MAY 07 JUN 10	DIS- SOLVED (µg/L as Fe) (01046)  69  <10 100 	DIS- SOLVED (µg/L as Pb) (01049)  E.05  <.08 <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  M <1 <1	NESE, DIS- SOLVED (μg/L as Mm) (01056)  215  <2.0 2530  	TOTAL RECOV- REABLE (μg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  <.3 .5	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  9 6 9	ETHYL ANILINE 0.7 µ GF, REC (µg/L) (82660)  <.002 <.006 <.006 <.002	CHLOR, WATER FITRD REC (µg/L) (49260)  <.004 <.006 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.010 <.004 <.004	BHC DTS- SOLVED (μg/L) (34253)  <.005  <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 109 <.007 .047
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 06 APR 10 MAY 07 JUN 10	DIS- SOLVED (µg/L as Fe) (01046)  69  <10 100   714	DIS- SOLVED (µg/L as Pb) (01049)  E.05  <.08 <.08   2.10	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  M <1 64	NESE, DIS- SOLVVED (μg/L as Mn) (01056)  215  <2.0 2530   70.6	TOTAL RECOV- REABLE (μg/L as Hg) (71900)  <.01 <.01 1515	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  <.3 .5	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 9 6 9 166	ETHYL ANILINE WAT FIT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.006 <.006 <.002 <.006 <.006	CHLOR, WATER FITRD REC (µg/L) (49260)  <.004 <.006 <.006 .082 1.58	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.010 <.004 <.004 <.002 .356 .021	BHC DTS- SOLVED (μg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 109 <.007 .047 .502  10.8 2.34
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 06 MAP 10 MAY 07 JUN 10	DIS- SOLVED (µg/L as Fe) (01046)  69  <10 100    714	DIS- SOLVED (µg/L as Pb) (01049)  E.05  <.08 <.08   2.10	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  M <1 <1 64 64	NESE, DIS- SOLVVED (μg/L as Mn) (01056)  215 <2.0 2530 70.6	TOTAL RECOV-ERABLE (μg/L as Hg) (71900)  <.01 <.01 <.1515	NIUM, DIS- SOLVED (μg/L as Se) (01145)  <.3 <.3 <.44	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  9 6 9 166	ETHYL ANILINE UNT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006 <.006 .082 1.58 .045	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.010 <.004 <.004 <.002 .356 .021	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 109 <.007 .047 .502 10.8 2.34 2.35

# 06902000 GRAND RIVER NEAR SUMNER, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)
OCT 17													
NOV 06	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.039	<.005	<.005	<.02	<.002	<.009
DEC 04													
JAN 08													
08 FEB													
05 MAR													
06 06 APR	<.010 <.010	<.002 <.002	<.041 <.041	<.020 <.020	<.005 <.005	<.018 <.018	<.003 <.003	<.006 E.011	<.005 <.005	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009
10 MAY	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.023	<.005	<.005	<.02	<.002	<.009
07 JUN	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.572	<.005	<.005	<.02	<.002	<.009
10 10 JUL	<.010 <.010	<.002 <.002	E.003 <.041	<.020 <.020	<.005 <.005	<.018 <.018	<.003 <.003	E.103 E.142	<.005 <.005	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009
16 AUG	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.088	<.005	<.005	<.02	<.002	<.009
13 SEP													
04													
DATE	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (μg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (μg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
DATE  OCT 17	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L)
OCT 17 NOV 06	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L)
OCT 17 NOV 06 DEC 04	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)
OCT 17 NOV 06 DEC 04 JAN 08	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)  <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415) 047	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 17 NOV 06 DEC 04 JAN 08 08	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 047	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 
OCT 17 NOV 06 DEC 04 JAN 08 08 FEB 05 MAR	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095)  <.003	DIS- SOLVED (µg/L) (39341)  <.004  	URON WATER FLITED 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 047	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER WATER FLITED 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 17 NOV 06 DEC 04 JAN 08 08 FEB 05	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004	URON WATER FLITED 0.7 μ GF, REC (μg/L) (82666)  <.035  <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027  <.027  <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050     <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006    <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 047 <.013 .019	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 APR 10	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004    <.004 <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 047 <.013 .019	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006    <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.007
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 06 01 MAR 01 MAR	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672) <-005 <-005 <-005 <-005 <-005 <-005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050   <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006    <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 047 <.013 .019 .071	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006 <.006 <.006 .009	INATE WATER WATER 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.007 <.010
OCT 17 NOV 06 DEC 04 JAN 08 08 FEB 05 MAR 06 06 APR 10	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004    <.004 <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 047 <.013 .019	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006    <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.007
OCT 17 NOV 06 DEC 04 JAN 08 08 FEB 05 MAR 06 06 APR 10 MAY 07 JUN 10	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <- 0.005 <	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004    <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006 <.006 <.006 .010 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 047 <.013 .019 .071 1.61 .410	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006    <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.010 <.010 <.010
OCT 17 NOV 06 DEC 04 JAN 08 FEB 05 MAR 06 06 APR 10 MAY 07 JUN 10	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672) (.005 (.005 <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <.035  <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006    <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 047 <.013 .019 .071 1.61 .410	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006 <.006 <.006 .009 <.006 <.006	INATE WATER WATER O.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.010 <.010 <.010 <.010

## 06902000 GRAND RIVER NEAR SUMNER, MO--Continued (Ambient Water-Quality Monitoring Network)

	PEB-	PENDI-	PER-			PRON-		PRO-	PRO-		TEBU-	TER-	TER-
	ULATE	METH-	METHRIN	PHORATE	PRO-	AMIDE	PROPA-	PANIL	PARGITE	SI-	THIURON	BACIL	BUFOS
	WATER	ALIN	CIS	WATER	METON,	WATER	CHLOR,	WATER	WATER	MAZINE,	WATER	WATER	WATER
	FILTRD	WAT FLT 0.7 µ	WAT FLT	FLTRD	WATER,	FLTRD 0.7 μ	WATER,	FLTRD	FLTRD	WATER,	FLTRD	FLTRD	FLTRD
DAME	0.7 μ		0.7 μ	0.7 μ	DISS,		DISS,	0.7 μ	0.7 μ	DISS,	0.7 μ	0.7 μ	0.7 μ
DATE	GF, REC	GF, REC	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, REC	REC	GF, REC	GF, REC	GF, REC
	(µg/L) (82669)	(µg/L) (82683)	(µg/L) (82687)	(µg/L) (82664)	(µg/L) (04037)	(µg/L) (82676)	(µg/L) (04024)	(µg/L) (82679)	(µg/L) (82685)	(µg/L) (04035)	(µg/L) (82670)	(µg/L) (82665)	(µg/L) (82675)
	(02009)	(02003)	(02007)	(02004)	(04037)	(02070)	(04024)	(02079)	(02005)	(04035)	(82070)	(82005)	(02075)
OCT													
17													
NOV													
06	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02
DEC													
04													
JAN													
08													
08													
FEB													
05													
MAR													
06	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
06	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.009	<.02	<.034	<.02
APR													
10	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	E.008	<.01	<.034	<.02
MAY													
07	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.621	<.02	<.034	<.02
JUN													
10	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.074	<.02	<.034	<.02
10	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.068	<.02	<.034	<.02
JUL													
16	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	.045	<.02	<.034	<.02
AUG													
13													
SEP													
04													

DATE	THIO- BENCARB WATER FLITRD 0.7 µ GF, REC (µg/L) (82681)		$(\mu g/L)$
OCT			
17 NOV			
06 DEC	<.005	<.002	<.009
04 JAN			
08			
08			
FEB 05			
MAR 06	<.005	<.002	<.009
06	<.005	<.002	<.009
APR			
10 MAY	<.005	<.002	<.009
07	<.005	<.002	<.009
JUN			
10	<.005	<.002	<.009
10	<.005	<.002	<.009
JUL 16	<.005	<.002	<.009
AUG	<.003	<.UUZ	×.009
13 SEP			
04			

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
L--Laboratory value.</pre>

160 CHARITON RIVER BASIN

### 06904050 CHARITON RIVER AT LIVONIA, MO

LOCATION.--Lat  $40^{\circ}29^{\circ}00^{\circ}$ , long  $92^{\circ}41^{\circ}10^{\circ}$ , in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.34, T.66 N., R.16 W., Schuyler County, Hydrologic Unit 10280201, on left bank 10 ft downstream from bridge on U.S. Highway 136, 1.0 mi upstream from Shoal Creek, 0.5 mi east of Livonia, and at mile 90.9.

DRAINAGE AREA.--864 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1974 to current year. Occasional discharge measurements were made from October 1962 to May 1974. REVISED RECORDS.--WDR MO-83-1: 1981.

GAGE.--Water-stage recorder. Datum of gage is 770.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Considerable regulation by Rathbun Lake (Iowa station 06903880), 51.0 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		VATER YE MEAN V	EAR OCTOBER	2001 TO	SEPTEMBER	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e44 e43 e43 e44 48	395 376 346 150 66	45 44 43 43	e30 e28 e28 e30 e35	e75 e60 e45 e35 e40	e45 e40 e38 e37 e37	192 141 119 96 84	279 214 164 129 104	1500 1470 1450 1430 1420	263 622 1100 271 82	40 e38 e37 e36 e35	28 28 28 28 27
6	131	57	43	e35	e55	e60	77	574	1260	65	e35	26
7	99	54	70	e28	e60	89	78	366	1040	65	34	26
8	69	51	1080	e27	65	348	124	212	870	63	33	27
9	59	50	1110	e34	63	381	801	1280	692	72	34	33
10	55	48	1110	e48	67	287	685	536	689	74	33	33
11	52	47	1120	e60	82	185	351	2420	700	218	32	33
12	63	47	920	62	91	152	389	4820	730	229	32	31
13	62	46	660	58	84	124	413	3330	1560	143	34	30
14	54	46	654	56	79	106	276	2440	1450	226	33	31
15	58	45	648	55	80	91	200	951	888	243	33	32
16	58	47	645	52	85	81	158	560	765	237	36	31
17	58	45	635	e40	85	79	128	447	717	232	36	31
18	58	45	628	e35	82	89	110	692	697	230	34	e32
19	55	44	581	e40	108	85	93	1530	684	213	43	e33
20	52	43	344	e45	217	73	86	1540	774	92	77	e31
21	170	43	125	e45	297	68	117	1510	846	48	65	29
22	254	45	68	54	211	65	190	1500	842	45	59	29
23	340	47	64	49	148	60	188	1510	838	44	56	e28
24	509	48	e45	57	117	61	317	1620	833	42	51	e27
25	586	45	e40	54	95	64	389	2170	828	43	51	26
26 27 28 29 30 31	473 410 390 382 379 386	45 45 45 46 45	e38 e38 e42 e45 e38 e38	59 62 58 58 e55 e90	81 69 e55 	65 69 76 124 292 287	178 1040 2290 1200 451	1920 1310 2300 2240 1860 1590	825 824 658 299 269	43 42 43 45 46 48	40 35 32 32 30 28	26 26 27 27 26
MEAN	177	83.4	356	47.3	94.0	118	365	1359	928	169	39.5	29.0
MAX	586	395	1120	90	297	381	2290	4820	1560	1100	77	33
MIN	43	43	38	27	35	37	77	104	269	42	28	26
IN.	0.24	0.11	0.48	0.06	0.11	0.16	0.47	1.81	1.20	0.23	0.05	0.04
MEAN	430	454	589	341	540	850	857	936	877	1013	613	472
MAX	1764	1714	2005	1797	1956	2046	1898	2239	1839	3923	2045	2029
(WY)	1994	1994	1983	1993	1983	1993	1983	1995	1980	1993	1993	1993
MIN	27.2	26.2	19.9	13.6	23.0	47.6	31.1	33.1	33.6	23.6	32.3	29.0
(WY)	1977	1990	1977	1977	1989	2000	1989	2000	1988	1988	1988	2002
SUMMARY	STATISTI	CS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR				WATER YE	ARS 1974	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS				796  3990 25 30 12.51 1720 538 45	Mar 16 Jan 1 Jan 1	539 21.3 4.9 93	20 26 Sep 6,7,2 26 20 20 88 88 24 <sup>a</sup>	May 12 15-27,30 Sep 24 May 12 May 12 Sep 24		677 1838 69.3 8960 13 13 9200 28.33 13 10.65 1600 392 32	Jan 1 Jan 1 Jul 1 Jul 1	1993 1989 8 1982 1 1977 1 1977 8 1982 8 1982 1 1977

e Estimated

a Minimum recorded, may have been less during period of estimated discharge.

### CHARITON RIVER BASIN 161

### 06904500 CHARITON RIVER AT NOVINGER, MO

LOCATION.--Lat  $40^{\circ}14^{\circ}05^{\circ}$ , long  $92^{\circ}41^{\circ}14^{\circ}$ , on south line of SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.28, T.63 N., R.16 W., Adair County, Hydrologic Unit 10280202, on downstream side of center pier of bridge on State Highway 6, 0.6 mi east of Novinger, 1.0 mi downstream from Rye Creek, 2.0 mi upstream from Spring Creek, and at mile 73.1.

DRAINAGE AREA. -- 1,370 mi<sup>2</sup>

PERIOD OF RECORD.--October 1930 to September 1952, October 1954 to current year. Prior to February 1931 monthly discharge only, published in WSP 1310.

REVISED RECORDS. -- WSP 896: 1939. WSP 1116: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 737.65 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 20, 1939, nonrecording gage at bridge over old channel, 500 ft east, at the same datum; Dec. 20, 1939, to Sept. 30, 1952, and Oct. 1, 1954, to Aug. 1, 1956, water-stage recorder, supplemented by nonrecording gage, at same site and datum; Aug. 3, 1956, to May 16, 1957, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Some regulation by Rathbun Lake (Iowa station 06903880). U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.6 ft, discharge,  $27,000 \text{ ft}^3/\text{s}$ , June 1917.

		DISCHAR	GE, CUBI	C FEET PER	R SECOND, W	VATER YEZ MEAN VAI		2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	446	55	e45	e95	e80	314	811	2010	308	64	30
2	49	432	55	e40	e75	e60	242	617	1910	327	51	30
3	49	422	51	e37	e65	e50	197	485	1840	1270	46	29
4	50	303	50	e40	e55	e70	163	399	1790	553	46	28
5	75	116	50	e50	e50	e90	138	337	1740	197	44	28
6	74	76	50	e55	e55	e150	123	6570	1630	178	42	27
7	139	69	49	e50	e60	194	121	2860	1260	225	41	26
8	94	68	891	e50	e70	991	150	1090	1130	132	39	26
9	76	66	1260	e70	96	1450	1750	5150	844	119	38	27
10	68	62	1240	e70	214	680	1380	1950	826	120	38	34
11	65	58	1240	e75	197	396	637	11000	848	953	36	34
12	61	54	1180	87	230	310	709	22900	864	1010	35	34
13	74	53	807	83	205	263	903	12700	2670	328	45	33
14	66	51	725	80	188	229	529	6250	2590	258	42	34
15	84	50	690	76	214	199	361	2730	1260	306	36	35
16	123	52	675	74	201	169	270	1480	983	286	42	36
17	78	50	654	e50	179	148	211	1090	864	276	44	35
18	72	49	626	e45	166	149	170	917	803	264	43	34
19	68	50	605	e50	330	150	144	2010	768	258	49	36
20	66	50	416	e50	771	133	120	2100	783	199	90	43
21	66	49	216	e55	579	117	1960	1990	891	106	157	36
22	642	49	112	e60	380	103	564	1910	875	77	104	35
23	1450	51	91	73	282	103	393	1870	865	73	138	34
24	870	53	e60	64	231	99	397	2170	858	68	138	31
25	807	53	e55	61	191	104	994	5950	847	63	94	28
26 27 28 29 30 31	672 527 470 445 434 424	55 57 55 55 57	e50 e45 e50 e55 e47 e47	70 85 81 78 55 e65	150 e120 e110 	111 117 127 174 536 446	394 5230 7030 2950 1290	4110 1940 4340 4090 2880 2270	836 827 779 435 325	64 61 60 66 66 67	69 49 40 37 35 32	29 29 31 32 30
MEAN	267	104	394	62.1	198	258	994	3773	1165	269	58.2	31.8
MAX	1450	446	1260	87	771	1450	7030	22900	2670	1270	157	43
MIN	49	49	45	37	50	50	120	337	325	60	32	26
IN.	0.23	0.08	0.33	0.05	0.15	0.22	0.81	3.18	0.95	0.23	0.05	0.03
MEAN	758	716	864	561	978	1554	1612	1875	1367	1485	767	728
MAX	3352	2403	3318	2686	2652	4105	5302	5447	4482	9877	2770	3232
(WY)	1974	1993	1983	1993	2001	1993	1973	1995	2001	1993	1993	1993
MIN	25.6	30.2	20.0	13.6	28.0	73.8	35.8	43.0	46.1	32.2	28.1	31.8
(WY)	1972	1990	1977	1977	1989	2000	1989	2000	1988	1970	1971	2002
SUMMARY STATISTICS			FOR :	2001 CALEN	NDAR YEAR	F	OR 2002 WA	TER YEAR		WATER YEARS 1970 - 2002 <sup>a</sup>		
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW  ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			1495 15600 42 47   14.82 3400 807 51	Feb 9 Jan 1 Jan 1		635 22900 26 27 24200 24.68 24 6.30 1460 117 38	May 12 Sep 7,8 Sep 3 May 12 May 12 Jan 30		1106 3299 107 22900 11 12 24200 25.71 11 Jan 1 10.97 2350 533 41	May 1 Jul 2	1 1970 6 1970 2 2002 4 1993 1 1970,	

e Estimated

a Post-regulation period.

162 CHARITON RIVER BASIN

### 06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO

LOCATION.--Lat 39°32'25", long 92°47'23", in NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.26, T.55 N., R.17 W., Chariton County, Hydrologic Unit 10280202, on right bank on downstream side of road at bridge on State Highway 129, 3.2 mi northwest of Prairie Hill, 13.5 mi upstream from Puzzle Creek, and at mile 19.6.

DRAINAGE AREA.--1,870 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to Oct. 1, 1953, published as Chariton River near Keytesville (06905600). Prior to May 1929, monthly discharge only, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 632.05 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to Oct. 1, 1953, nonrecording gage at site 8.2 mi downstream at datum 13.68 ft lower; Oct. 1, 1953, to July 2, 1958, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Some regulation by Rathbun Lake (Iowa station 06903880), 122 mi upstream, since 1970. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DISCHAR	GE, CUBI	C LEEI PEI		MEAN VA		R 2001 10	SELIEMBE	JR 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	497	55	e60	600	e120	667	1560	2420	458	137	78
2	80	504	57	e55	311	e100	511	1060	2180	406	123	69
3	75	544	52	e55	233	e80	382	792	2060	383	122	63
4	72	549	50	e65	209	e90	300	606	1990	1250	107	60
5	490	492	48	e55 e55 e65 e70	175	e120	247	475	1940	1050	90	58
6	292	332	4 /	e65	108	165	207	4800	1890	545	84	55
7	189	218	43	e60	142	226	183	11400	1790	352	81	54
8	147	176	44	e90	131	309	193	4210	1440	412	75	51
9	179	151	437	e115	136	1010	224	10300	1360	359	68	48
10	168	125	1220	130	181	1910	1680	6420	1100	289	67	45
11	155	122	1230	113	365	1050	1590	12500	1130	294	64	44
12 13	119 108	100	1250	99 89	367 364	733	939 853	32200 35600	2420 1580	753 1500	62 71	49 56
13	108	89 86	1230	101	339	3/1 47E	1170	18600	3140	701	88	56
15	148	70	977 856	89 101 91	307	571 475 400	801	9090	2640	479	81	62
		70										
16 17	382 380	65 63	819	93 72 52 83	330 328 277 255	340 293 259 239	597 470 383	3910 2270	1560 1190	458 466	93 108	60 65
18	239	61	802 785	7.2 5.2	328 277	293 250	383		996	449	96	73
19	135	63	772	83	255	239	365	1400	895	440	118	77
20	97	61	761	88	973	238	581	2290	872	427	108	69
21	79	58	632	75	1500	227	1640	2400	888	410	110	66
22	66	52	438	67	943	198	3580	2290	998	320	189	72
23	355	53	280	71	645	175	1200	2280	1010	227	405	66
24	1510	64	165	79	473	164	741	3060	1010 998	183	286	55
25	1040	71	e120	85	366	164	900	9450	992	164	278	49
26	908	78 80 64 62 58	e90	58	288	165 171 178 188 198	1330	8050	992	211	251	48
27	794	80	e85	67	e200	171	2560	4120	992	161	182	45
28	632	64	e75	74	e130	178	9290	2490	970	139	140	42
29	559	62	e80	95		188	5300	5160	959	299	111	41
30	520	58	e90	172		198	2880	3790	712	229	93	39
31	501		e85	774		521		2940		152	82	
MEAN	342	167	441	105	381	357	1392	6685	1470	450	128	57.2
MAX	1510	549	1250	774	1500	1910	9290	35600	3140	1500	405	78
MIN	66	52	43	52	108	80	183	475	712	139	62	39
IN.	0.21	0.10	0.27	0.06	0.21	0.22	0.83	4.12	0.88	0.28	0.08	0.03
STATIST	ICS OF MC	NTHLY MEA	N DATA F	OR WATER Y	YEARS 1929	- 2002,	BY WATER	YEAR (WY)				
MEAN	736	814	747	723	1137	1896	2076	2122	2034	1432	717	714
MAX	5695	6574	5449	4516	4102	5724	8981	9560	14830	15980	4856	5203
(WY)	1974	1962	1983	1946	1937	1973	1973	1995	1947	1993	1932	1993
MIN	9.59	9.77	13.0	12.9	18.1	37.3	45.9	69.8	25.8	13.4	7.97	13.6
(WY)	1957	814 6574 1962 9.77 1957	1957	1957	1957	1957	1956	2000	1934	1934	1936	1953
SUMMARY STATISTICS			FOR	2001 CALE	NDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	ARS 1929	- 2002
ANNUAL MEAN			1747			1006			1260			
	'ANNUAL ME									4320 159		1993 2000
				22300 Jun 6			35600	May 13		32600	Marr	L3 2002
HIGHEST DAILY MEAN LOWEST DAILY MEAN			43	Dec 7		39	a - 20		4 6	Aug .	7 1934	
ANNUAL SEVEN-DAY MINIMUM			49	Dec 2		46	Sep 24		159 35600 4.6 4.8	Aug	4 1934	
MAXIMUM PEAK FLOW						37100 May 13			37100 May 13 200			
MAXIMUM PEAK STAGE					23.01 May 13				4.6 Aug 7 1934 4.8 Aug 4 1934 37100 May 13 2002 23.01 May 13 2002 4.6 Aug 7 1934			
	'ANEOUS LO	W FLOW					22 <sup>a</sup>	Jan 18		4.6	Aug	7 1934
ANNUAL RUNOFF (INCHES)				12.68			7.30			9.16		
10 PERCENT EXCEEDS			4050			1960			3120			
50 PERCENT EXCEEDS				1010			233			362		
90 PERC	90 PERCENT EXCEEDS 75 60 40											

e Estimated

Minimum recorded, may have been less during period of estimated record.

# 06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO--Continued (Ambient Water-Quality Monitoring Network)

# WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1962 to June 1963, August 1967 to July 1975, January 1978 to September 1986, November 1992 to current year.

REMARKS.--National Stream-Quality Accounting Network station January 1978 to September 1986 and an Ambient Water-Quality Monitoring Network station November 1992 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 05 05	1345 1346	ENVIRONM REPLICAT		481 	10.2	102	7.6	281	14.7	130 130	39.3 39.4	8.45 8.48	4.65 4.71
JAN 07	1525	ENVIRONM	ENTAL	e60	13.3	94	7.5	380	.6				
MAR 05	1420	ENVIRONM	ENTAL	e120	13.6	108	8.0	521	4.9				
MAY 06 06	1610 1615	ENVIRONM BLANK	ENTAL	5920 	7.5	83	7.4	207	18.6	90	27.2 .08	5.27 .010	2.30 <.10
JUL 15	1350	ENVIRONM	ENTAL	965	8.8	116	8.1	273	28.7				
SEP 04	1050	ENVIRONM	ENTAL	61	7.7	94	8.0	422	24.1				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV													
05 05	7.25 7.12	102	103	126	0	13.8 8.61	.2	30.5 30.1	64 58	190 188	E.02	.56 .61	.26 .32
JAN 07		176	176	215	0				<10		.19	.56	.48
MAR 05		167	168	205	0				38		.07	.49	.65
MAY 06	4.01	65	63	77	0	4.29	. 2	27.1	241	167	.12	4.1	2.16
06 JUL	.47					<.30	<.1	E.1	<10	<10	<.04	<.10	<.05
15		93	92	113	0				E196		<.04	1.0	1.16
SEP 04		163	162	198	0				38		<.04	.69	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 05 05 JAN	.039	E.05 E.05	<.02 E.02	.15	K34 	60 	K27 	70 68	721 743	.9 1.0	E.02	<.1 <.1	<6 <6
07	<.008	<.06	<.02	<.06	<1	K1	K8						
MAR 05	E.005	<.06	E.01	.06	К2	к3	K19						
MAY 06 06 JUL	.044	.13	.11 <.02	1.54 <.06	6800	K15200 	K20400 	406 <1	13700 2	1.2	.05 <.04	.8 <.1	<6 <6
15	.028	E.06	.04	.23	180	520	100						
SEP 04	<.008	<.06	.02	.14	72	140	84						

# 06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
05	109	.12	2	23.6	<.01	<.3	10	9
05	114	.09	1	23.5	<.01	<.3	4	7
JAN								
07								
MAR								
05								
MAY								
06	409	1.06	32	70.9	.07	.5	32	91
06	<10	<.08	<1	<2.0	<.01	<.3	<1	1
JUL								
15								
SEP								
04								

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

# 06905725 MUSSEL FORK NEAR MYSTIC, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $40^{\circ}09^{\circ}38^{\circ}$ , long  $92^{\circ}53^{\circ}25^{\circ}$ , in NE  $^{1}\!\!/_{4}$  NW  $^{1}\!\!/_{4}$  sec.23, T.62 N., R.18 W., Sullivan County, Hydrologic Unit 10280202, access is approximately 2 mi east of Mystic on the left bank on upstream side of bridge on County Highway H.

DRAINAGE AREA. -- 24.0 mi<sup>2</sup>.

PERIOD OF RECORD. -- November 1997 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT													
24 NOV	1450	ENVIRONM	ENTAL	3.5	7.3	76	7.5	216	15.0				
29 DEC	0835	ENVIRONM	ENTAL	.17	10.4	81	8.0	411	3.5	170	49.7	11.9	7.62
13 JAN	0950	ENVIRONM	ENTAL	.83	10.0	80	7.9	408	4.5				
09	1335	ENVIRONM	ENTAL	.20	12.5	90	7.8	618	.5	260	75.2	17.8	8.59
FEB 28	0855	ENVIRONM	ENTAL	1.4	14.8	106	8.2	404	.5				
MAR 20	1405	ENVIRONM	ENTAL	.97	14.5	137	8.6	395	11.5				
APR 18	0900	ENVIRONM	ENTAL	1.6	6.9	80	7.9	416	20.5				
MAY 22	0915	ENVIRONM	ENTAL	2.2	9.3	92	7.9	351	13.5	150	43.2	9.33	3.57
JUN 27	1515	ENVIRONM	ENTAL.	.06	10.2	140	7.9	367	30.0				
27 AUG	1516	REPLICAT											
22	0855	ENVIRONM	ENTAL	.17	5.0	61	7.9	302	24.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 24 NOV	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 24 NOV 29	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 66	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  50 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608) E.02	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .80 <.05
OCT 24 NOV 29 DEC 13 JAN	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  68 166	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 66 167	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 81 204	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  50 <10 20	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 E.04 E.02	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.6 .92 .63	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .80 <.05
OCT 24 NOV 29 DEC 13	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 66	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  50 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608) E.02	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .80 <.05
OCT 24 NOV 29 DEC 13 JAN 09	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  68 166	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 66 167	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 81 204	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  50 <10 20	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 E.04 E.02	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.6 .92 .63	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .80 <.05
OCT 24 NOV 29 DEC 13 JAN 09 FEB 28 MAR 20	DIS- SOLVED (mg/L as Na) (00930)  18.1  30.4	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 68 166 159 220	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 66 167 157	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 81 204 191 270	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  28.0 55.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  50 <10 20 10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 E.04 E.02	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) 1.6 .92 .63	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .80 <.05 <.05
OCT 24 NOV 29 DEC 13 JAN 09 FEB 28 MAR 20 APR 18	DIS- SOLVED (mg/L as Na) (00930)  18.1  30.4	WATER UNFLTRD FET FIELD (mg/L as CaCC <sub>3</sub> ) (00410) 68 166 159 220	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 66 167 157 221 134	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 81 204 191 270	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.5  33.2	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 28.0 55.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  50 <10 20 10 18	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 E.04 E.02 .07	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.6 .92 .63 .92 .83	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .80 <.05 <.05 .05
OCT 24 NOV 29 DEC 13 JAN 09 FEB 28 MAR 20 APR 18 MAY 22	DIS- SOLVED (mg/L as Na) (00930)  18.1 30.4	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  68 166 159 220 132	WATER UNFLTRD TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 66 167 157 221 134 135	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 81 204 191 270 163 159	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 3	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.5  33.2	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 28.0 55.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  50 <10 20 10 18 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 E.04 E.02 .07 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.6 .92 .63 .92 .83 .60	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .80 <.05 <.05 .55 <.05
OCT 24 NOV 29 DEC 13 JAN 09 FEB 28 MAR 20 APR 18	DIS- SOLVED (mg/L as Na) (00930)  18.1  30.4 	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  68 166 159 220 132 135 146	WATER UNFLTRD TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 66 167 157 221 134 135 148	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 81 204 191 270 163 159	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.5  33.2	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  28.0 55.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  50 <10 20 10 18 <10 17	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.02 E.04 E.02 .07 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  1.6 .92 .63 .92 .83 .60 .77	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .80 <.05 <.05 .55 <.05 <.05

# 06905725 MUSSEL FORK NEAR MYSTIC, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT													
24 NOV	.022	.17	.14	.42	5900	5300	8600						
29 DEC	<.008	<.06	<.02	E.06	K2800	K2100	110	3	164	1.0	<.04	<.1	<6
13 JAN	<.008	<.06	<.02	E.05	1400	620	2600						
09 FEB	<.008	<.06	<.02	E.05	45	K24	250	5	115	1.1	E.02	<.1	<6
28 MAR	.010	<.06	<.02	.09	К9	K10	K20						
20	<.008	<.06	<.02	E.04	К7	K1	К8	9					
APR 18	<.008	<.06	E.01	.07	K71	69	K59						
MAY 22	<.008	<.06	<.02	.12	630	370	510	2	245	1.0	<.04	<.1	<6
JUN 27	E.005	<.06	<.02	E.04	110	92	K15						
27 AUG	E.005	<.06	<.02	E.04									
22	<.008	<.06	<.02	.08	240	330	870						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT		DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV	4	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV	4 9	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 2 DEC 1	4 9 3	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 2 DEC 1 JAN 0	4 9 3	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB	4 9 3 9	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900) <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 MAR 2	4 9 3 9 8	DIS- SOLVED (µg/L as Fe) (01046)  37  35	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.04	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  755	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  .3 	DIS- SOLVED (µg/L as Zn) (01090)  2  4	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 MAR 2	4 9 3 9 8	DIS- SOLVED (µg/L as Fe) (01046)  37  35	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.04	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  755  1550	TOTAL RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  .3  .6	DIS- SOLVED (µg/L as Zn) (01090)  2  4	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)			
	OCT 22 NOVV 2 DEC 1 JAN 0 FEB 2 MAR 2 APR 1 MAY 2	4 9 3 9 8 0	DIS- SOLVED (µg/L as Fe) (01046)  37  35	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.04	TOTAL RECOV- REABLE (µg/L as Pb) (01051)  M <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  755  1550	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  .3  .6	DIS- SOLVED (µg/L as Zn) (01090)  2  4	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 1			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 MAR 2 APR 1 MAY 2 JUN 2	4 9 3 9 8 0 8 2	DIS- SOLVED (µg/L as Fe) (01046)  37  35 	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.04 	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  755 1550	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  .3  .6	DIS- SOLVED (µg/L as Zn) (01090)  2  4 	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 1			
	OCT 2 NOV 2 DEC 1 JAN 0 FEB 2 MAR 2 APR 1 MAY 2 JUN 2 AUG	4 9 3 9 8 0 2	DIS- SOLVED (µg/L as Fe) (01046)  37  35 	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.04 	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1 M M	NESE, DIS- SOLVED (μg/L as Mn) (01056)  755 1550	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Zn) (01145)  .3  .6	DIS- SOLVED (µg/L as Zn) (01090)  2  4 	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 1			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

# 06906150 LONG BRANCH CREEK AT ATLANTA, MO

LOCATION.--Lat 39°53'51", long 92°29'34", in SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.20, T.59N., R.14W., Macon County, Hydrologic Unit 10280203, at right upstream end of bridge on Marion Street, 0.65 mi east of Highway RA, and 0.3 mi west of Atlanta.

DRAINAGE AREA.--23.0  $\min^2$ .

PERIOD OF RECORD.--July 1995 to current year. Published as "near Atlanta" 1995 to 2000.

GAGE.--Water-stage recorder. Datum of gage is 814.75 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for period Nov. 25 to Dec. 13 and estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TO S	EPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.17 0.09 0.08 0.17 4.2	0.10 0.09 0.07 0.10 0.09	0.78 0.84 0.79 0.68 2.4	0.03 0.00 0.00 0.00 e0.25	6.9 e5.0 e6.0 e7.0 e4.0	0.77 0.74 0.77 0.69 0.74	1.2 1.0 0.80 0.74 0.60	9.3 6.6 5.1 3.7	1.4 0.85 0.59 0.42 0.34	0.02 0.02 0.02 0.01 0.0	0.26 0.15 0.19 0.17 0.11	0.13 0.09 0.08 0.05 0.04
6 7 8 9 10	9.0 3.3 1.3 0.58 0.47	0.09 0.08 0.11 0.10 0.12	1.2 0.47 0.60 0.46 0.63		e5.0 4.0 1.5 33 172	2.6 6.9 7.1 240 58	0.52 0.55 1.9 11 8.0	425 339 53 555 69	0.27 0.22 0.18 0.16 0.13	0.0 0.02 0.02 0.0 0.03	0.08 0.07 0.05 0.03 0.38	0.02 0.02 0.0 0.00 0.00
		0.18	0.29 0.36 0.63 1.6		83 21 e9.5 e13 e6.0	12 7.1 5.4 4.5 3.6	3.2 1.9 1.3 0.96 0.80	786 2060 613 46 24	0.16 0.37 3.8 15 2.1			0.00 0.00 0.00 0.00
16 17 18 19 20	147 17 2.4 0.51 0.16	0.24 0.30 0.31 0.38 0.27	1.6 1.2 0.72 0.58 0.48	0.10 0.06 0.04 0.04 0.04	e3.0 e2.0 e8.0 e48 e115	2.8 2.4 1.9 1.9 2.4	0.61 0.51 0.36 25 7.5	17 12 9.8 7.7 4.8	1.3 0.59 0.36 0.20 0.14	0.22 0.12 0.09 0.08 0.06	0.16 0.15 0.15 0.42 0.23	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25		0.31 0.27 0.36 0.51 0.60					449 136 24 59 129	2.9 1.7 1.9 35 508	0.10 0.09 0.07 0.06 0.06	0.04 0.04 0.02 0.01 0.00	0.17 0.14 0.54 0.36 0.46	0.02 0.04 0.02 0.03 0.02
26 27 28 29 30 31	0.05 0.04 0.04 0.07 0.09	1.0 0.98 0.96 0.78 0.89	0.22 0.16 0.14 0.09 0.06 0.04	0.04 0.04 0.04 0.09 0.74 5.0	3.7 3.4 2.3 	1.6 1.5 1.5 1.8 1.6	19 293 681 61 23	163 12 6.7 120 11 3.9	0.05 0.04 0.03 0.03 0.02	0.02 0.02 0.00 0.07 0.09 0.56	2.5 1.3 0.68 0.39 0.27 0.20	0.01 0.0 0.00 0.00 0.00
MEAN MAX MIN	6.72 147 0.03	0.34 1.0 0.07	0.62 2.4 0.04	0.25 5.0 0.00	23.4 172 1.5	12.4 240 0.69	64.8 681 0.36	191 2060 1.7	0.97 15 0.02	0.41 4.8 0.00	0.38 2.5 0.03	0.02 0.13 0.00
							BY WATER					
MEAN MAX (WY) MIN (WY)	13.9 87.7 1999 0.25 1997	11.1 68.9 1999 0.34 2002	5.68 26.5 1999 0.04 2001	19.0 61.7 1999 0.10 2000	34.0 84.1 1997 1.69 2000	25.9 81.8 1998 3.02 2000	42.9 86.7 1999 0.63 2000	64.6 191 2002 0.54 2000	25.8 71.0 1998 0.97 2002	11.3 60.9 1998 0.25 1999	6.01 25.0 1995 0.02 1999	1.68 4.71 1998 0.02 2002
SUMMAR	Y STATISTI	CS	FOR	2001 CAI	LENDAR YE	AR	FOR 2002	WATER YEAR	1	WATER YEA	RS 1995 -	- 2002
50 PER	MEAN I ANNUAL ME ANNUAL ME I DAILY ME DAILY MEA SEVEN-DAY M PEAK FLO M PEAK STA TANEOUS LO CENT EXCEE CENT EXCEE	DS		818 0.00 Se 0.00  30 0.82 0.04	Feb everal Da Jul	9 ys 10	25.2 2060 0.00 0.00 3360 16.44 0.00 18 0.38 0.02	May 12 Many Days Sep 8 May 12 May 12 Many Days	2 3 4 1 2 2	21.5 37.0 1.88 2060 0.00 0.00 3360 16.44 0.00 26 0.79 0.03	May 12 Several At May 12 May 12 Several	1999 2000 2 2002 Years Times 2 2002 2 2002 Years

e Estimated

#### LITTLE CHARITON RIVER BASIN

#### 06906190 LONG BRANCH RESERVOIR NEAR MACON, MO

LOCATION.--Lat  $39^{\circ}45^{\circ}05^{\circ}$ , long  $92^{\circ}30^{\circ}20^{\circ}$ , in NW  $\frac{1}{4}$  sec.10, T.57 N., R.14 W., Macon County, Hydrologic Unit 10280203, in Administration Building at left end of dam on East Fork Little Chariton River, 2.0 mi west of junction of U.S. Highways 63 and 36 in Macon, and 2.0 mi below confluence with Long Branch.

DRAINAGE AREA. -- 109 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1978 to current year. Contents published 1982 to current year. Records collected at same site since 1978 are available from the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rolled earthfill type dam. Closure began on Sept. 3, 1976. Storage began on Aug. 2, 1978. An uncontrolled limited service type spillway, 50 ft wide, is located at the right abutment. Capacity of surcharge pool 98,590 ac-ft (elevation 801.1 ft to 820.7 ft); of flood control pool 30,600 ac-ft (elevation 791.1 ft to 801.0 ft); and of multipurpose pool 34,640 ac-ft (elevation 751.1 ft to 791.0 ft). Lake is used for flood control, water supply, water-quality control and recreation. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION. -- Records furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 70,500 ac-ft, May 13, 2002, elevation, 802.58 ft; minimum, 14,300 ac-ft, Dec. 5, 1980, elevation, 780.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 70,500 ac-ft, May 13, elevation, 802.58 ft; minimum, 26,800 ac-ft, Sept. 30, elevation, 787.69 ft.

			ELEVATI	ON, IN FE		YEAR OCT	OBER 2001 T 0800	. TO SEPTE	MBER 2002			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	788.99	788.88	788.45	788.08	787.96	788.84	789.40	792.88	796.40	791.77	790.36	788.81
2	788.96	788.89	788.44	788.07	787.97	788.85	789.43	792.78	796.16	791.69	790.30	788.74
3	788.93	788.89	788.42	788.05	787.99	788.87	789.40	792.69	795.89	791.61	790.24	788.70
4	788.92	788.86	788.41	788.03	788.02	788.84	789.37	792.60	795.68	791.54	790.15	788.63
5	789.03	788.85	788.38	788.01	788.03	788.84	789.33	792.51	795.45	791.48	790.09	788.55
6	788.99	788.84	788.41	788.02	788.04	788.82	789.31	792.64	795.21	791.42	790.05	788.49
7	788.98	788.82	788.40	788.01	788.05	788.84	789.28	794.12	794.97	791.41	789.98	788.43
8	788.95	788.81	788.40	787.99	788.02	788.84	789.30	794.48	794.75	791.35	789.91	788.37
9	788.93	788.78	788.37	787.98	788.04	789.03	789.36	795.18	794.53	791.29	789.84	788.32
10	788.92	788.75	788.35	787.97	788.11	789.33	789.37	795.67	794.32	791.33	789.79	788.26
11 12 13 14 15	788.93 788.95 788.92 788.92 788.90	788.75 788.72 788.71 788.69 788.67	788.33 788.32 788.36 788.33 788.32	787.96 787.95 787.95 787.93 787.92	788.24 788.39 788.41 788.42 788.45	789.42 789.46 789.47 789.48 789.50	789.38 789.41 789.39 789.39	795.98 798.04 802.58 802.52 802.05	794.12 794.11 793.87 793.66 793.51	791.31 791.32 791.29 791.24 791.18	789.71 789.65 789.61 789.55 789.52	788.20 788.13 788.07 788.00 788.00
16	788.96	788.66	788.32	787.91	788.44	789.49	789.36	801.55	793.37	791.12	789.47	787.97
17	789.14	788.66	788.33	787.89	788.43	789.47	789.36	801.05	793.23	791.06	789.46	787.95
18	789.14	788.64	788.30	787.88	788.43	789.47	789.35	800.51	793.09	791.01	789.42	787.94
19	789.13	788.64	788.30	787.87	788.43	789.47	789.40	799.97	792.95	790.96	789.40	787.91
20	789.12	788.60	788.27	787.87	788.52	789.49	789.44	799.42	792.87	790.91	789.35	787.95
21	789.11	788.57	788.27	787.86	788.76	789.55	789.59	798.88	792.75	790.85	789.28	787.93
22	789.11	788.55	788.24	787.85	788.83	789.45	790.40	798.36	792.63	790.79	789.23	787.90
23	789.03	788.53	788.24	787.84	788.85	789.42	790.62	797.91	792.52	790.75	789.24	787.88
24	789.11	788.52	788.23	787.83	788.87	789.43	790.66	797.61	792.42	790.67	789.24	787.85
25	789.06	788.54	788.20	787.81	788.89	789.46	790.79	797.74	792.32	790.60	789.19	787.82
26 27 28 29 30 31	789.03 789.00 788.97 788.95 788.95	788.54 788.52 788.50 788.48 788.47	788.19 788.16 788.16 788.13 788.12 788.10	787.78 787.77 787.77 787.76 787.76 787.95	788.89 788.85 788.83 	789.44 789.41 789.38 789.40 789.39	790.95 791.01 792.04 792.91 792.94	798.02 797.75 797.44 797.16 796.93 796.67	792.21 792.12 792.03 791.93 791.84	790.56 790.49 790.44 790.52 790.47 790.42	789.14 789.09 789.04 788.97 788.92 788.87	787.80 787.77 787.75 787.73 787.69
MEAN	789.00	788.68	788.30	787.91	788.40	789.27	789.98	797.22	793.70	791.06	789.55	788.12
MAX	789.14	788.89	788.45	788.08	788.89	789.55	792.94	802.58	796.40	791.77	790.36	788.81
MIN	788.90	788.47	788.10	787.76	787.96	788.82	789.28	792.51	791.84	790.42	788.87	787.69
( - )	29400	28400	27600	27300	29200	30400	39100	49900	36300	32800	29300	26800
( = )	-300	-1000	-800	-300	+1900	+1200	+8700	+10800	-13600	-3500	-3500	-2500

CAL YR 2001....+7900 WTR YR 2002....-2900

<sup>(-)</sup> Contents, in acre-feet, at the end of the month.

<sup>(=)</sup> Change in contents, in acre-feet.

#### 06906200 EAST FORK LITTLE CHARITON RIVER NEAR MACON, MO

LOCATION.--Lat 39°44'59", long 92°31'03", in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.18, T.57 N., R.14 W., Macon County, Hydrologic Unit 10280203, on right bank 250 ft downstream from Long Branch Lake and 3.0 mi west of Macon.

DRAINAGE AREA.--112 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1971 to current year. Partial-record station May 1970 to August 1971.

GAGE.--Water-stage recorder. Datum of gage is 741.43 ft above National Geodetic Vertical Datum of 1929. Sept. 8, 1971, to Aug. 1, 1985, water-stage recorder at site 400 ft downstream at same datum.

REMARKS.--Records fair. Complete regulation by Long Branch Reservoir (06906190), 250 ft upstream. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,700 ft<sup>3</sup>/s, Apr. 21, 1973; gage height, 20.60 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	14 14 14 14	12 12 12 11 11	9.1 9.0 8.9 8.8 8.9	9.2 9.2 9.4 9.6 9.5	9.5 9.4 9.4 9.5	8.8 8.9 8.8 8.7 8.9	9.9 9.9 9.9 9.9	177 168 156 145 135	353 336 326 320 312	58 58 57 58 56	45 45 45 45 44	43 43 44 43 43	
6 7 8 9 10	14 14 14 14	11 11 11 11 11	9.0 9.1 9.2 8.4 8.3	9.7 9.5 9.7 9.8 9.3	9.5 9.6 9.7 9.6 9.4	9.2 9.5 9.4 9.7 9.6	9.9 10 10 10	211 298 313 383 334	304 295 287 278 269	54 54 53 52 53	43 43 44 44 44	43 43 43 43 43	
11 12 13 14 15	14 14 14 14	10 10 10 10 9.8	8.4 8.2 8.2 8.1 8.5	9.3 9.0 9.2 9.4 9.3	9.5 9.4 9.5 9.5 9.5	9.5 9.6 9.8 9.7 9.8	10 10 10 10	452 1030 1270 1240 1220	263 261 256 244 233	51 52 51 50 49	44 44 44 20 28	43 43 43 19 6.8	
16 17 18 19 20	14 14 14 14	9.8 9.7 9.4 9.1 9.3	8.5 8.4 8.2 8.1 8.4	9.2 9.3 9.5 9.5 9.3	9.3 9.4 9.5 9.6 9.0	9.7 9.6 9.7 9.8 9.7	11 11 11 11	1220 1200 1190 1180 1140	221 203 188 174 163	48 48 48 48	43 43 43 43 43	6.9 7.0 6.9 6.9 7.1	
21 22 23 24 25	13 13 13 13	9.2 9.3 8.6 8.7 8.4	8.4 8.4 8.5 8.7	9.2 9.5 9.8 9.8	8.7 8.7 8.7 8.8 8.7	9.9 9.9 9.9 9.8 9.8	11 11 11 11 12	1030 807 649 558 696	151 139 127 116 105	47 48 47 46 46	43 43 43 43 43	6.7 7.0 7.0 7.3 7.3	
26 27 28 29 30 31	13 12 12 12 12 12	8.2 8.5 8.7 8.9 8.9	9.0 9.0 9.1 9.1 9.1	9.7 9.7 9.7 9.6 9.7 9.6	8.9 8.8 8.9 	9.7 9.8 9.7 9.8 9.9	12 19 72 145 161	696 612 504 456 416 380	93 82 73 64 60	46 46 47 46 45	43 43 43 43 43	7.1 7.2 7.4 7.1 5.3	
MEAN MAX MIN IN.	13.4 14 11 0.14	9.92 12 8.2 0.10	8.68 9.2 8.1 0.09	9.48 9.8 9.0 0.10	9.26 9.7 8.7 0.09	9.57 10 8.7 0.10	22.4 161 9.9 0.22	654 1270 135 6.73	210 353 60 2.09	50.2 58 45 0.52	42.3 45 20 0.44	23.0 44 5.3 0.23	
STATIST	ICS OF MO	NTHLY MEA		R WATER	YEARS 1979	- 2002 <sup>a</sup>	BY WATER	R YEAR (WY)					
MEAN MAX (WY) MIN (WY)	57.0 406 1987 0.16 1979	64.6 354 1986 0.27 1979	77.6 304 1993 0.00 1979	47.2 223 1993 0.00 1979	57.6 200 1999 0.00 1979	112 502 1985 7.30 1989	130 475 1983 7.27 1989	195 680 1995 7.21 1988	133 369 1995 5.45 1988	122 743 1993 5.52 1989	68.0 401 1981 2.48 1980	50.6 341 1981 7.06 1984	
SUMMARY	STATISTI	CS	FOR 2	001 CALE	NDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	ARS 1979	- 2002 <sup>a</sup>	
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM INSTANTA ANNUAL I 10 PERCI 50 PERCI	ANNUAL M ANNUAL ME DAILY ME DAILY MEA	AN AN N MINIMUM GE W FLOW NCHES) DS		324 8.1 I 8.3 7.51 174 40 9.1	Jun 8 Dec 14,19 Dec 13		1270 5.3 6.9 1300 15.00 0.09 10.83 262 11 8.7	May 13 Sep 30 Sep 15 May 13 May 13 Aug 14		93.1 242 7.13 1380 0.00 0.00 1560 15.00 0.00 11.29 284 45 6.8	Many Many May May 1	1993 1989 8 1995 Years Years 7 1996 3 2002 Years	

<sup>&</sup>lt;sup>a</sup> Post-regulation period.

#### 06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, MO

LOCATION.--Lat 39°27'18", long 92°34'07", in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.26, T.54 N., R.15 W., Randolph County, Hydrologic Unit 10280203, on right bank downstream end of bridge on State Highway C, 1.0 mi downstream from Sugar Creek, and 1.5 mi northwest of Huntsville.

DRAINAGE AREA. -- 220 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year. Occasional low-flow measurements, water years 1942-43, 1945-46.

GAGE.--Water-stage recorder. Datum of gage is 655.86 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission). Oct. 29, 1962 to July 18, 1972, on former bridge, at same datum; July 18, 1972 to Sept. 23, 1974, at datum 0.63 ft higher.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Some regulation by Long Branch Reservoir (station 06906190), 34 mi upstream since 1978. Low flow affected by operation of pumps 7 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft<sup>3</sup>/s, Apr. 21, 1973; gage height, 20.78 ft, former datum.

		DISCHA	RGE, CUBI	C FEET PER		MEAN VA		R 2001 10	PELIEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	15 14 14 13 259	16 17 18 18	12 11 11 12 12	e9.0 e9.0 e9.0 e9.8 e10	332 102 73 49 35	e20 e18 e16 e15 e20	19 18 19 17 17	236 226 190 165 148	479 444 420 406 393	80 78 80 78 74	60 60 58 57	51 51 51 51 51
6 7 8 9 10	73 25 18 16 14	17 17 17 16 16	13 12 12 11 11	e10 e10 e11 12 13	33 32 25 25 34	47 46 41 310 129	16 17 22 44 35	2170 2960 1610 5770 2340	378 360 344 328 317	71 68 67 65 74	54 52 52 52 52 53	51 51 51 51 50
11 12 13 14 15	20 18 17 18 20	16 16 16 16 17	12 12 19 18 14	13 12 12 13 13	32 27 22 20 19	65 47 42 37 34	26 20 19 18 18	2970 3560 2230 1490 1340	408 581 429 348 285	77 97 68 63 60	52 52 55 54 33	49 49 50 50 31
16 17 18 19 20	65 29 18 16 15	17 16 16 17 16	17 21 20 18 16	12 10 11 13 13	18 18 17 21 223	30 28 26 26 29	17 15 16 15 16	1280 1280 1250 1170 1130	254 229 206 182 166	58 57 56 58 57	33 56 64 62 58	12 11 11 16 19
21 22 23 24 25	14 15 17 19	15 15 15 23 25	15 16 17 13 13	16 14 18 16 14	120 59 42 34 28	27 24 22 23 26	784 300 110 64 46	1070 943 797 769 1920	154 143 132 123 116	57 60 63 55 55	55 56 72 72 57	14 12 11 11 11
26 27 28 29 30 31	18 17 17 17 17 16	20 18 17 12 12	e11 e12 e12 e11 e10 e9.5	17 15 15 15 94 773	23 19 e18 	24 22 21 21 22 19	32 1250 1120 332 248	1160 862 724 634 575 522	107 99 95 90 84	162 60 56 120 69 61	55 54 52 52 52 51	11 11 14 14 13
MEAN MAX MIN IN.	28.5 259 13 0.15	16.8 25 12 0.09	13.7 21 9.5 0.07	39.7 773 9.0 0.21	53.6 332 17 0.25	41.2 310 15 0.22	156 1250 15 0.79	1403 5770 148 7.35	270 581 84 1.37	71.1 162 55 0.37	54.9 72 33 0.29	31.0 51 11 0.16
STATIST	CICS OF MO	NTHLY ME.	AN DATA F	OR WATER	YEARS 1979	- 2002 <sup>a</sup>	, BY WATE	R YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	104 1019 1987 6.44 1981		140 666 1983 4.95 1989	98.1 362 1993 6.48 1989	173 732 1985 7.59 1989	228 945 1985 10.6 1989	252 935 1983 10.2 1989	363 1403 2002 12.1 1988	228 562 1995 2.56 1988	227 1569 1993 5.34 1989	105 514 1993 3.64 1980	106 774 1993 2.70 1988
SUMMARY	STATISTI	CS	FOR	2001 CALE	NDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	ARS 1979	- 2002 <sup>a</sup>
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY PEAK FLO ANNOOFF (I RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS		3000 8.5 9.4  8.93 292 57 14	Jun 6 Jan 1 Jan 1		183 5770 9.0 <sup>b</sup> 9.5 6260 17.39 7.0 <sup>c</sup> 11.32 407 28 12	May 9 Jan 1-3 Dec 30 May 9 May 9 Jan 17,18		179 468 17.3 7760 0.00 0.40 10400 19.30 0.00 11.08 390 61 8.8	Many Oct Jun 1 Sep	1993 1989 3 1986 Y Years 9 1980 27 1981 2 1982 Y Years

Post-regulation period.
Occurred during period of estimated record.

Minimum recorded, may have been less during period of estimated record.

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# 06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, MO--Continued (Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 05	1130	ENVIRONM	ENTAL	18	9.0	88	7.7	1070	13.2	490	116	48.4	5.70
JAN 07	1325	ENVIRONM	ENTAL	e10	13.7	96	7.5	615	.3				
MAR 05	1215	ENVIRONM	ENTAL	e20	15.1	110	7.8	695	1.7				
MAY 06	1330	ENVIRONM	ENTAL	3170	8.4	89	7.4	320	16.7	160	43.3	11.7	3.57
JUL 15 SEP	1145	ENVIRONM	ENTAL	61	7.3	89	7.8	383	24.5				
04	0910	ENVIRONM	ENTAL	51	6.8	81	7.3	249	23.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 05 JAN	45.2	111	111	136	0	8.46	.3	447	14	784	<.04	.46	<.05
07 MAR		243	241	294	0				<10		.09	.57	.35
05 MAY		127	125	152	0				<10		.04	.41	.08
06 JUL	6.57	63	61	74	0	2.79	.2	85.6	1280	242	.09	2.7	.60
15 SEP		62	61	75	0				E98		<.04	.73	.40
04		54	55	67	0				39		<.04	.53	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLIRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV	. 000	. 05		0.0	26	7200	4.53	22	200	-	п 02	n 1	
05 JAN 07	<.008 E.005	<.06 <.06	<.02	.06	36 K2	K75 K13	47 27	33	280	.7	E.03	E.1	<6 
07 MAR 05	<.008	<.06	<.02	<.06	<2	<2	K8						
MAY 06	.039	.23	.15	1.12	2400	K10300	K18600	545	8140	1.1	.12	.8	E3
JUL 15	.013	E.04	.02	.14	230	460	200						
SEP 04	<.008	<.06	<.02	.09	160	K332	380						

# 06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
05	70	E.06	<1	693	<.01	E.2		6
JAN								
07								
MAR								
05								
MAY								
06	824	1.66	20	433	.05	.7		74
JUL								
15								
SEP								
04								

e--Estimated discharge value. K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

### MISSOURI RIVER MAIN STEM 173

#### 06906500 MISSOURI RIVER AT GLASGOW, MO

LOCATION.--Lat 39°13'20", long 92°51'00", in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.3, T.51 N., R.17 W., Howard County, Hydrologic Unit 10300102, at bridge on State Highway 240 in Glasgow, 75 ft downstream from Chicago and Alton Railway bridge, 1 mi downstream from Little Chariton River, and at mile 226.8.

DRAINAGE AREA.--498,900 mi<sup>2</sup>. The 3,959 mi<sup>2</sup> in Great Divide basin are not included.

PERIOD OF RECORD.--October 2000 to current year. Gage-height records collected at site 1878-99 in reports of the Missouri River Commission. Gage-height records collected from January 1929 to August 1950 in files of the Corps of Engineers, Kansas City District. August 1950 to September 2000 gage-height records collected in files of the U.S.G.S.

GAGE.--Water-stage recorder. Datum of gage 586.49 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for discharges above  $100,000 \text{ ft}^3/\text{s}$ , which are poor. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 29, 1993 reached a stage of 39.50 ft.

		DISCHAF	RGE, CUBI	C FEET PE	R SECOND, DAILY	WATER Y		ER 2001 TO	) SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53600	43500	43300	26800	39200	28800	39100	64600	63300	41800	35500	40000
2	52600	43100	41700	25700	37800	28900	39600	57800	62100	40700	33500	39100
3	54200	42300	41000	24500	33700	28600	38700	53700	59900	40100	32400	39100
4	53900	42100	39500	24100	30500	28200	38500	51300	58600	39500	31700	38600
5	53700	42500	37700	23400	28800	26700	38800	48500	56300	40300	31100	37500
6	58400	42600	35900	22700	27000	25500	39900	54300	54900	40100	31000	37000
7	53900	42800	34100	22600	25300	25600	40700	110000	55000	38800	30700	37000
8	48600	42800	32500	22900	24700	25400	40700	135000	52700	38200	30700	37000
9	46400	42800	32100	23300	24800	25400	40400	157000	51200	37900	30900	36600
10	45000	42500	32800	24200	25300	28200	41500	149000	50000	37800	31500	36200
11	44100	42100	33100	25200	27000	30700	46900	128000	52700	37700	33600	36000
12	43800	41800	33300	26800	29700	31300	44900	151000	79400	38400	34600	36000
13	44100	41900	33500	27900	30000	30600	43300	190000	83200	41600	33600	35800
14	44900	41900	33200	27300	30800	29200	47400	209000	80100	40800	32900	35700
15	44800	41900	33000	27000	31300	28200	46700	195000	70800	39400	34100	36100
16	47400	41800	32300	28300	31000	27900	45200	162000	71700	39000	33700	36600
17	56600	41500	31500	29700	30800	28000	43500	128000	67700	39100	34200	37200
18	54900	41400	30900	30600	30900	29700	42000	98700	59700	37600	37400	37500
19	49000	41400	30600	31400	31100	35800	41200	83200	55000	36300	36900	37900
20	46000	41300	30400	31200	32500	38800	41600	76200	53400	35900	37600	38300
21	44700	42000	29800	29900	42800	35200	49200	69900	51900	35400	38800	38100
22	43900	42400	29500	28800	44500	31500	80400	63500	50200	35000	39300	36900
23	43500	42300	29800	29400	38800	30000	81700	58700	49100	34100	42500	36400
24	43700	42500	31000	30400	35300	29800	62900	59200	47700	33400	45800	36700
25	45100	42400	31800	29900	33700	30300	54500	75800	47000	32600	44200	36500
26 27 28 29 30 31	45300 44700 43600 43100 42800 43000	42900 43900 44700 45600 45300	31500 30800 30600 30300 29300 27900	28800 28000 27700 27100 27400 33200	32200 30700 29400 	32700 36500 39600 41000 39800 37800	50600 51900 77900 92600 77600	103000 93500 78200 73100 68300 64200	46900 46500 45700 45300 44800	32100 32400 31900 33200 35300 36500	50200 58300 50400 46700 44100 41600	35400 34400 33700 33400 33500
MEAN	47720	42600	33050	27300	31770	31150	50660	100300	57090	37190	37730	36670
MAX	58400	45600	43300	33200	44500	41000	92600	209000	83200	41800	58300	40000
MIN	42800	41300	27900	22600	24700	25400	38500	48500	44800	31900	30700	33400
STATIS	TICS OF M	ONTHLY MEA	AN DATA F	OR WATER	YEARS 2001	- 2002	, BY WATER	R YEAR (W	ď)			
MEAN	45770	43730	29230	28180	45380	64060	71850	103200	106100	54940	43630	46210
MAX	47720	44860	33050	29060	58990	96960	93040	106000	155200	72690	49530	55750
(WY)	2002	2001	2002	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	43820	42600	25410	27300	31770	31150	50660	100300	57090	37190	37730	36670
(WY)	2001	2002	2001	2002	2002	2002	2002	2002	2002	2002	2002	2002
SUMMAR	Y STATIST	ICS	FOR	2001 CALE	NDAR YEAR	:	FOR 2002 T	WATER YEAR	3	WATER YE	ARS 2001	- 2002
LOWEST HIGHES LOWEST	T ANNUAL ! ANNUAL M T DAILY M DAILY ME			261000 23900 24100  124000 55500 30700	Jun 8 Jan 1 Jan 1		209000 22600 23300 213000 28.28 22500 63100 39000 28300	May 14 Jan 4 Jan 4 May 14 May 14 Jan 7	4 7 4 4 4 7	56840 69160 44520 261000 18400 19900 272000 31.66 18300 107000 43500 28000	Jun Dec Dec Jun Jun Dec	2001 2002 8 2001 20 2000 19 2000 7 2001 7 2001 7 2000

174 LAMINE RIVER BASIN

# 06906800 LAMINE RIVER NEAR OTTERVILLE, MO

LOCATION.--Lat  $38^{\circ}42^{\circ}09^{\circ}$ , long  $92^{\circ}58^{\circ}42^{\circ}$ , in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.2, T.45 N., R.19 W., Cooper County, Hydrologic Unit 10300103, on left bank at the left downstream end of Highway A, 7.2 mi downstream from confluence of Flat Creek and Richland Creek, 2.2 mi upstream from Otter Creek, and 1.1 mi east of Otterville.

DRAINAGE AREA. -- 543 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 652.87 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S.G.S satellite telemeter at station.

		DISCHARO	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 10 9.7 9.2 17	14 39 33 63 38	39 39 37 36 36	31 30 28 27 27	2660 900 485 341 255	57 e65 e80 e100 151	177 136 138 113 93	331 259 194 146 116	115 97 82 65 59	16 16 16 16 15	7.9 7.5 7.0 6.8 6.5	9.7 8.6 7.8 7.3 6.7
6 7 8 9 10	142 160 57 30 571	28 23 20 18 17	35 34 34 33 33	28 28 28 29 30	205 172 143 123 113	320 360 308 312 501	77 70 73 87 87	159 2080 15400 20200 4790	57 55 54 50 47	16 16 15 14	6.5 6.4 6.0 5.9 5.6	6.0 5.6 5.4 5.4 5.2
11 12 13 14 15	341 106 84 60 52	16 16 15 15	32 34 39 45 57	30 31 30 30 30	99 87 77 69 64	329 247 196 160 142	75 67 61 56 53	859 809 3410 1150 545	46 395 745 324 159	14 35 110 57 32	5.4 5.5 6.9 8.8 14	4.7 4.3 4.2 4.9 5.9
16 17 18 19 20	145 277 139 68 44	14 14 15 18 38	98 150 163 132 101	29 28 27 28 28	58 54 50 57 208	122 105 95 91 91	49 45 42 42 1560	428 2520 4040 911 495	92 64 48 40 36	24 19 17 16 14	12 9.9 11 10 9.0	5.5 5.1 4.9 5.3 6.6
21 22 23 24 25	34 29 25 22 19	36 30 27 58 306	80 69 59 52 46	28 27 27 28 28	314 224 150 117 96	88 77 68 65 75	2000 1070 513 323 218	355 274 223 347 1170	33 30 28 25 24	13 12 12 11 11	8.4 13 30 70 46	7.1 6.5 5.7 5.5 5.5
26 27 28 29 30 31	17 16 15 15 14 14	140 76 51 43 41	43 41 40 37 35 33	27 26 26 25 64 7430	80 68 59 	78 71 65 70 294 284	151 2810 4990 933 467	781 381 266 214 177 141	24 21 19 18 17	12 11 9.8 9.4 8.9 8.3	37 23 17 14 12	5.3 5.0 4.6 4.3 4.1
MEAN MAX MIN	82.4 571 9.2	42.5 306 14	56.2 163 32	268 7430 25	262 2660 50	164 501 57	552 4990 42	2038 20200 116	95.6 745 17	19.7 110 8.3	14.2 70 5.4	5.76 9.7 4.1
MEAN MAX (WY) MIN (WY)	195 2130 1999 7.73 1993	526 3347 1993 7.43 2000	317 1564 1993 11.1 1990	332 956 1999 16.1 2000	640 2422 1997 35.0 1996	576 2174 1998 46.4 1996	925 3809 1994 22.2 2000	1356 4718 1990 38.8 1992	671 3176 1998 10.5 1988	656 4077 1993 11.0 1988	150 850 1995 3.40 1991	293 3689 1993 4.03 1999
SUMMAR	Y STATISTI	CS	FOR	2001 CAL	ENDAR YEAR	?	FOR 2002 1	WATER YEA	R	WATER YE	ARS 1987	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM INSTANTANNUAL 10 PERC 50 PERC	MEAN  F ANNUAL ME ANNUAL ME T DAILY MEA SEVEN-DAY M PEAK STA FANEOUS LO RUNOFF (I CENT EXCEE CENT EXCEE	AN AN AN AN MINIMUM W GE WW FLOW NCHES) CDS		19100 8.0 8.9  14.54 824 62 14	Apr 4 Jan 3, Jan 1	4	301 20200 4.1 4.9 22200 21.25 3.9 7.54 343 39 7.1		0 8 9 9	552 1464 155 47000 1.3 1.4 84900 29.43 1.2 13.81 781 74 9.1	Aug 2 Aug 2 May 1 May 1	1993 1992 18 1995 26 1991 23 1991 18 1995 18 1995 28 1991

e Estimated

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# 06907300 LAMINE RIVER NEAR PILOT GROVE, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $38^{\circ}53^{\circ}32^{\circ}$ , long  $93^{\circ}02^{\circ}00^{\circ}$ , in SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  New  $\frac{1}{4}$  sec.32, T.48 N., R.19 W., Cooper County, Hydrologic Unit 10300102, located approximately 2 mi southeast of County Highway Z on Shackleford Road.

DRAINAGE AREA.--949 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1999 to current year.

DATE	TIME	SAMPL: TYPE	E	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 06	1350	ENVIRONM	ENTAL	87	8.0	79	7.2	332	13.7	160	38.7	15.9	4.77
JAN 08	1355	ENVIRONM	ENTAL	51	15.6	113	7.9	361	1.1				
FEB 04 04	1430 1431	ENVIRONM REPLICAT		526 	13.0	97 	7.5	247	2.9				
MAR 06	1700	ENVIRONM	ENTAL	234	17.5	142	8.9	376	5.2				
APR 10	1205	ENVIRONM	ENTAL	128	11.3	111	8.4	414	14.1				
MAY 07	1550	ENVIRONM	ENTAL	2030	6.7	73	7.6	248	18.5	110	29.3	8.41	4.70
JUN 11	0845	ENVIRONM	ENTAL.	98	7.9	99	7.9	410	25.1				
JUL 16	1330	ENVIRONM		94	6.4	81	7.7	250	26.6	110	27.8	10.3	5.18
SEP 05	0910	ENVIRONM		17	4.3	54	7.8	425	25.7				
03	0,10	DIVV INCOME	DIVITIE	Ξ,	1.5	31	7.0	123	23.7				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 06 JAN	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 06 JAN 08 FEB	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 06 JAN 08	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 06 JAN 08 FEB 04 04	DIS- SOLVED (mg/L as Na) (00930) 7.04	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  142 186 74	WATER UNFLITCH IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  142  189  73	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 173 231 89	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> )(00447)  0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940) 12.4	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) 74 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .12 .10	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) E.02 2.26 2.26 2.27
NOV 06 JAN 08 FEB 04 04 MAR 06	DIS- SOLVED (mg/L as Na) (00930) 7.04	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 142 186 74 	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 142 189 73  152	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  173 231 89 162	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950) E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  74 <10 68 68 26	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .12 .10 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .53 .39 1.1 1.1	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  E.02 2.26 2.26 2.27 E.04
NOV 06 JAN 08 FEB 04 04 MAR 06 APR 10 MAY	DIS- SOLVED (mg/L as Na) (00930) 7.04	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  142 186 74 152 148	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  142  189  73   152  149	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 173 231 89  162 177	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0   12	RIDE, DIS- SOLVED (mg/L as C1) (00940) 12.4	RIDE, DIS- SOLVED (mg/L as F) (00950) E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 14.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  74 <10 68 68 26 28	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .12 .10 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .53 .39 1.1 1.1 .99	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) E.02 2.26 2.26 2.27 E.04
NOV 06 JAN 08 FEB 04 04 MAR 06 APR 10 MAY 07	DIS- SOLVED (mg/L as Na) (00930) 7.04	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  142  186  74   152  148  97	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  142  189  73   152  149  97	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 173 231 89  162 177 118	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0   12  2  0	RIDE, DIS- SOLVED (mg/L as C1) (00940) 12.4	RIDE, DIS- SOLVED (mg/L as F) (00950) E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 14.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  74 <10 68 68 26 28 395	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .12 .10 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .53 .39 1.1 1.1 .99 .72 2.1	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) E.02 2.26 2.27 E.04 E.04 1.35
NOV 06 JAN 08 FEB 04 04 MAR 06 APR 10 MAY 07 JUN 11	DIS- SOLVED (mg/L as Na) (00930) 7.04    5.49	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  142 186 74 152 148 97	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  142  189  73   152  149  97  157	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  173 231 89 162 177 118	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 12 2 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940) 12.4    7.04	RIDE, DIS- SOLVED (mg/L as F) (00950) E.1     <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 14.0 11.9	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  74 <10 68 68 26 28 395 26	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .12 .10 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .53 .39 1.1 1.1 .99 .72 2.1 .70	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  E.02 2.26 2.26 2.27 E.04 E.04 1.35 1.65
NOV 06 JAN 08 FEB 04 04 MAR 06 APR 10 MAY 07 JUN 11	DIS- SOLVED (mg/L as Na) (00930) 7.04    5.49	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  142  186  74   152  148  97	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  142  189  73   152  149  97	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 173 231 89  162 177 118	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0   12  2  0	RIDE, DIS- SOLVED (mg/L as C1) (00940) 12.4    7.04	RIDE, DIS- SOLVED (mg/L as F) (00950) E.1    <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 14.0    11.9	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  74 <10 68 68 26 28 395	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  192 186	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .12 .10 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .53 .39 1.1 1.1 .99 .72 2.1	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) E.02 2.26 2.27 E.04 E.04 1.35

#### LITTLE CHARITON RIVER BASIN

# 06907300 LAMINE RIVER NEAR PILOT GROVE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 06	E.006	.10	.07	.20	62	58	48	80	348	1.2	<.04	<.1	<6
JAN 08	E.004	1.16	1.15	1.33	<1	K2	К5						
FEB 04 04	.020	.24	.20	.35 .36	K180	900	K2260						
MAR 06	.011	.08	.08	.28	K2	K7	48						
APR 10	E.005	.25	.23	.35	59	64	K18						
MAY 07 JUN	.052	. 29	.25	.72	31000	K70000	78000	348	3430	1.5	E.03	E.1	E3
JUL JUL	.012	. 29	.27	.39	43	49	42						
16 SEP	<.008	E.05	.04	.21	160	400	220	3	1300	2.2	<.04	E.1	<6
05	<.008	.09	.07	.17	K66	100	160						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	NOV 0 JAN	6	138	.12	1	76.7	<.01	<.3	5	7			
		8											
	0	4											
	MAR 0 APR	6											
		0											
		7	338	1.05	7	23.1	.02	E.2	13	22			
		1											
	SEP		E7	<.08	3	74.0	.01	<.3	2	9			
	U	5											

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.  $<--Numeric \ result$  is less than the value shown.

#### LAMINE RIVER BASIN 177

#### 06908000 BLACKWATER RIVER NEAR BLUE LICK, MO

LOCATION.--Lat 38°59'32", long 93°11'48", in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.26, T.49 N., R.21 W., Saline County, Hydrologic Unit 10300104, on left bank at upstream side of bridge on northbound lane of U.S. Highway 65, 1.2 mi downstream from Finney Creek, 1.8 mi southeast of Blue Lick, and at mile 30.3.

DRAINAGE AREA.--1,120 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1922 to September 1933, May 1938 to current year. Published as "at Blue Lick" for periods of record from 1922 to 2000.

REVISED RECORDS. -- WSP 1006: 1929. WDR MO-84-1: 1982(M).

GAGE.--Water-stage recorder. Datum of gage is 593.79 ft above National Geodetic Vertical Datum of 1929. Prior to July 25, 1925, nonrecording gage at site 75 ft downstream at datum 0.10 ft lower; July 25 to Sept. 30, 1933, and May 23, 1938 to Dec. 3, 1956, nonrecording gage at site 25 ft downstream at same datum; Dec. 4, 1956, to Oct. 1, 1986, at site 0.5 mi upstream at present datum.

REMARKS.--Records good except for estimated daily discharges in December and January, which are fair, and those in March, which are poor. U.S. Army Corps of Engineers satellite telemeter at station. Published as "Blackwater River at Blue Lick" for periods of record from 1922 to 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIBCINK	on, cobic	. I DDI I DIK	DAILY	MEAN VA	LUES	. 2001 10	ODI IDIIDDI	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	30 26 21 18 897	15 14 13 14 15	17 15 13 14 16	13 e12 11 e11 11	3280 1860 669 410 287	45 e45 e46 e48 e50	42 49 41 36 30	897 508 356 259 212	395 296 234 204 823	25 22 20 27 129	38 26 17 13 11	7.2 6.8 6.1 5.5 5.1
6 7 8 9	1350 581 173 104 79	14 16 17 17 17	15 17 21 21 17	11 11 11 12 14	201 158 138 124 113	58 73 88 119 130	27 25 27 34 46	1900 9050 9500 12600 14500	1230 588 264 172 140	47 20 17 63 68	10 9.5 8.7 8.6 7.9	4.8 4.7 4.6 4.5 4.5
11 12 13 14 15	114 147 124 84 100	18 21 18 17 17	17 19 30 51 72	15 18 21 22 22	103 91 81 76 72	107 93 81 72 66	66 64 54 83 90	18500 19300 18200 16000 13400	137 6340 5230 2810 1180	50 302 254 255 178	7.3 6.8 7.2 7.1 7.7	5.9 5.8 5.4 5.3 8.3
16 17 18 19 20	654 612 250 124 87	17 19 18 19 20	62 53 44 38 33	22 23 22 24 25	68 64 61 61 82	60 56 51 50 50	70 58 50 58 167	10900 6520 3340 2410 1390	590 301 195 146 123	97 59 38 25 22	7.4 7.1 27 21 363	6.5 5.8 10 15
21 22 23 24 25	67 54 44 37 28	24 31 28 25 22	29 26 24 e20 19	24 25 30 30 33	306 285 162 115 93	49 46 42 38 36	1990 3120 1340 452 252	744 498 372 335 2560	109 91 74 62 54	17 18 17 14 13	155 38 16 79 54	11 9.3 9.2 13 12
26 27 28 29 30 31	22 20 21 20 16 15	20 21 21 20 20	17 16 15 14 e14 e13	33 30 26 23 89 2270	77 64 51  	36 39 41 40 40	168 2230 5580 4870 2620	5190 6200 4980 1830 951 579	48 43 37 33 28	11 10 52 82 55	32 19 13 11 9.0 7.8	10 8.7 7.6 7.4 6.5
MEAN MAX MIN IN.	191 1350 15 0.20	18.9 31 13 0.02	25.6 72 13 0.03	95.0 2270 11 0.10	327 3280 51 0.30	59.2 130 36 0.06	791 5580 25 0.79	5935 19300 212 6.11	733 6340 28 0.73	65.1 302 10 0.07	33.7 363 6.8 0.03	7.65 15 4.5 0.01
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	R PERIOD	OF RECORI	O, BY WAT	ER YEAR (	WY)				
MEAN MAX (WY) MIN (WY)	563 9500 1987 0.13 1957	607 6100 1929 0.32 1957	458 3359 1983 1.66 1957	464 2326 1974 1.55 1957	762 5206 1985 5.54 1954	1038 4706 1973 9.50 1956	1455 8473 1973 29.6 1977	1317 8090 1995 9.93 1932	1291 6235 2001 18.4 1956	835 8855 1951 1.78 1933	298 1835 1998 1.61 1930	614 5979 1961 0.13 1956
SUMMARY	STATISTI	CS	FOF	2001 CAL	ENDAR YEA	AR	FOR 2002	WATER YE	AR	FOR 1	PERIOD OF	RECORD
LOWEST ANGUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL 10 PERC.	MEAN ANNUAL ME DAILY ME DAILY ME DAILY MEA SEVEN-DAY PEAK FLO PEAK STA ANEOUS LO RUNOFF ( I ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS		1419 19300 9.5 10 17.20 5640 161 17	Jun Jan 1, Jan	, 2	19300 4.5 4.8 19700 34.84 4.1 8.44 1040 38 9.8	Sep 9, Sep May May Sep	10 4 11 11	810 2540 95.8 48400 0.00 54000 41.53 0.00 9.83 2430 90	Nov Jul 17- Jul Nov Oct	17 1980 18 1928 3 1986

e Estimated

178 MISSOURI RIVER MAIN STEM

#### 06909000 MISSOURI RIVER AT BOONVILLE, MO

LOCATION.--Lat 38°58'42", long 92°45'13", sec.35, T.49 N., R.17 W., Cooper County, Hydrologic Unit 10300102, on downstream side of second pier from right abutment of Missouri-Kansas-Texas Railroad Company Bridge at Boonville and at mile 196.6.

DRAINAGE AREA.--500,700  $\mathrm{mi}^2$ . The 3,959  $\mathrm{mi}^2$  in Great Divide basin are not included.

PERIOD OF RECORD.--October 1925 to current year. Gage-height records collected at same site 1893-99 are in reports of the Missouri River Commission; since 1900 in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 565.42 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1928, nonrecording gage at site 0.4 mi downstream at datum 3.14 ft lower; Oct. 1, 1928, to May 9, 1931, nonrecording gage at site 50 ft upstream from present site at present datum; May 10, 1931, to Apr. 12, 1934, water-stage recorder at site 0.4 mi downstream at datum 3.14 ft lower.

REMARKS.--Records fair except for period May 1 to Aug. 30 and estimated daily discharges, which are poor. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 21, 1844, reached a stage of 32.7 ft, discharge, about 710,000 ft<sup>3</sup>/s, computed by the U.S. Army Corps of Engineers. Flood of June 6, 1903, reached a stage of 30.5 ft, discharge, about 612,000 ft<sup>3</sup>/s, computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			,		DAIL	Y MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53700	43700	44800	28700	49700	30800	38700	66500	62800	42600	36400	40600
2	52300	43400	42800	28100	45000	30700	40000		62300	40600	34800	39600
3 4	52900 54000	42600 42200	41800 40500	27100 26300	37700 33600	30500 30200	39300 39000	52800 50100	60500 59300	40200 39600	33500 32800	39200 39200
5	e54500	42500	38400	26100	31600	29700	39000	47800	57300	39700	32200	38400
	051500		30100	20100		25700	33000	1,000	37300	33700	32200	
6	59800	42700	36500	25600	30200	28600	39800	52600	56300	40300	31700	37700
7 8	57100 50500	42700 42800	35000 33300	25100 25200	28800 27800	27700 28700	40700 41200	116000 156000	56100 54800	39300 38500	31500 31200	37600 37700
9	47000	42600	32400	25500	27600	28400	41000		52600	38300	31300	37500
10	45300	42500	32500	25800	27800	29300	41000	189000	51700	38200	31600	37100
	44500	40000	22000	05400	00000	21.000	44000	150000	51500	20100	20000	25500
11 12	44500 44200	42200 42000	33200 33200	26400 27200	28200 30100	31900 32800	44900 46200	170000 176000	51500 90200	38100 39000	32700 34100	36600 36600
13	44100	42000	33500	28300	31000	32500	43800	206000	100000	40300	34000	36600
14	44400	42000	33400	28500	31400	31500	45500	228000	91400	41900	33000	36400
15	e45000	42100	33300	28100	32000	30600	47400	222000	75000	39800	33200	36600
16	47400	41900	33000	28500	32000	30200	45400	191000	70300	39000	33800	37000
17	56100	41600	32200	29500	31800	30100	43400	151000	68800	38700	33400	37600
18	59500	41400	31600	30300	31800	30500	41700	115000	61200	38100	37400	38100
19	54000	41400	31300	31000	32000	33600	41100	90500	55600	36600	39500	38200
20	49600	41200	31100	31300	32300	38200	41200	78600	53400	36100	38800	38500
21	47800	41500	30800	30600	38000	37300	49100	72100	52200	35900	e40300	38600
22	46600	42200	30300	29500	45100	33900	75400	66200	50500	35600	e39700	37100
23	45900	42600	30100	29300	41400	31800	90200		49300	35100	e40700	35700
24	45700	42600	30700	30000	37200	31400	67400	59000	48000	34500	e43700	35800
25	46500	42600	31600	30300	35300	31500	56300	67700	46800	33700	e44300	36300
26	47200	43100	31600	29800	33700	32600	51300	99600	46500	33100	e45100	36100
27	47000	43700	31200	29200	32400	35300	53400	101000	46200	33200	e58000	35500
28	45800	44800	30900	28900	31400	38300	80900	80600	45400	32900	e52300	35400
29	44900	46100	30800	28700		40400	103000		44900	33200	e46900	35600
30	44200	46400	30300	29100		40500	83800		44600	34800	e44600	35900
31	43600		29400	36300		38900		64400		36400	42300	
MEAN	49070	42700	33600	28530	33820	32530	51700	110000	58850	37530	37900	37290
MAX	59800	46400	44800	36300	49700	40500	103000	228000	100000	42600	58000	40600
MIN	43600	41200	29400	25100	27600	27700	38700		44600	32900	31200	35400
IN.	0.11	0.09	0.08	0.07	0.07	0.07	0.12	0.25	0.13	0.09	0.09	0.08
STATIS	STICS OF N	MONTHLY ME	AN DATA I	FOR WATER	YEARS 195	8 - 2002	a, BY WAT	TER YEAR (V	TY)			
MEAN	65810	61960	45270	36020	49610	71030	90920	93650	95120	84470	63960	66300
MAX	187800	139100	106200	90150	106300	183900	212700		201100	375200	213600	165900
(WY)	1974	1999	1983	1973	1982	1973	1973		1984	1993	1993	1993
MIN	36280		13840	14770	17620	19460	39060		41990	37530	36570	36730
(WY)	1965		1964	1963	1964	1964	1989	1989	1988	2002	1991	1991
SUMMAF	RY STATIST	rics	FOR	2001 CALI	ENDAR YEAR		FOR 2002	WATER YEAR	2	WATER Y	ZEARS 1958	3 - 2002 <sup>a</sup>
ANNUAI	MEAN			73440			46210			68710	)	
UTCUEC	ד א דודאדא א ידיב	MEAN					10210			1/0500	1	1993
LOWEST	C ANNUAL N	MEAN								39070	)	1963
HIGHES	ST DAILY N	MEAN		294000	Jun 8		228000	May 1	1	721000	) Jul	30 1993
LOWEST	DAILY ME	EAN		26300	Jan 6,7		25100	Jan '	7	5000	) Dec	21 1963
ANNUAL	SEVEN-DA	AY MINIMUM		26600	Jun 8 Jan 6,7 Jan 5		228000 25100 25700 233000 26.74	Jan 4	1	5730	Dec	19 1963
MAXIMU	IM PEAK FI	LOW PACE					26.74	May 1	± 1	755000	) Jul	29 1993
TNSTAN	TANEOUS I	OM ELOM					25000	May 1. Jan . Jan . May 1. May 1. Jan .	7	57.10	) Jan 22	24 1963
ANNUAL	RUNOFF	(INCHES)		1.99			1.25	0011		1.86	) Jan 22,	
10 PEF	CENT EXC	EEDS		131000			63400			124000		
50 PEF	RCENT EXC	LOW FAGE LOW FLOW (INCHES) EEDS EEDS EEDS		57100			39300			55100		
90 PEF	RCENT EXC	EEDS		31600			29900			29400	)	

e Estimated a Post-regulation period.

#### MOREAU RIVER BASIN 179

#### 06910750 MOREAU RIVER NEAR JEFFERSON CITY, MO

LOCATION.--Lat 38°31'44", long 92°11'31", SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.25, T.44 N., R.11 W., Cole County, Hydrologic Unit 10300102, near right bank on downstream side of right pier of bridge on Tanner Bridge Road, 3 mi south of Jefferson City, 15.8 mi downstream from confluence of North and South Moreau Creeks, and at mile 17.

DRAINAGE AREA.--561 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1947 to September 1974, November 13, 2000 to current year. Published as Moureau River near Jefferson City (06910500), 1948 to 1974. Discharge measurements only October 1956 to September 1957.

GAGE.--Water-stage recorder. Datum of gage is 546.33 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 17, 1958, nonrecording gage, and Aug. 17, 1958, to May 21, 1969, water-stage recorder at site 10 mi upstream and at datum 16.4 ft higher, drainage area 531 mi<sup>2</sup>.

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1905 reached a stage of 38.2 ft, flood of 1929 reached a stage of 32.91 ft, and flood of 1943 reached a stage of 35.1 ft, present site, from information and floodmarks by local residents

		DISCHARG	E, CUBIC	FEET PER	SECOND, W			ER 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	22 20 20 18 45	55 135 151 134 108	73 72 76 80 77	65 61 57 54 51	8100 1230 652 471 361	87 134 319 352 283	320 255 285 227 192	373 291 238 199 170	234 185 153 129 254	38 33 32 181 154	18 16 16 14 13	26 22 18 16 12
6 7 8 9 10	52 74 107 103 3600	103 87 75 67 60	71 67 63 59 57	52 53 54 56 58	298 262 236 213 193	434 615 407 319 286	164 148 197 534 379	154 1410 9310 17200 16600	264 186 148 116 103	94 64 47 37 134	13 12 11 10 9.3	11 11 9.1 7.9 7.2
11 12 13 14 15	6230 972 811 474 327	e57 e53 51 49 47	55 94 192 229 198	58 60 61 60 58	176 164 152 140 131	254 230 204 186 169	272 212 177 158 145	2300 1010 9230 5640 924	93 1230 4840 1850 487	58 2870 1520 396 219	10 13 17 27 23	6.4 6.2 5.8 6.4 8.3
16 17 18 19 20	321 514 315 210 158	45 43 44 50 58	289 628 549 372 260	55 53 51 51 50	123 118 111 110 154	157 146 135 139 173	134 121 111 105 1160	e732 820 6030 1280 656	304 212 157 121 98	136 93 72 59 50	18 15 147 57 572	7.3 8.7 9.4 8.5
21 22 23 24 25	125 103 88 227 241	118 119 91 80 71	198 162 141 127 115	50 50 51 55 54	177 151 144 129 118	194 164 148 134 156	2740 2250 723 431 305	459 360 299 1300 2890	83 71 63 56 50	44 39 37 34 32	92 40 34 58 221	11 13 12 14 16
26 27 28 29 30 31	136 98 82 72 64 58	90 139 106 86 79	102 93 88 83 77 72	55 55 54 53 166 6450	107 98 91 	270 408 317 362 809 526	235 632 5250 1180 530	840 503 354 330 425 309	46 42 51 63 46	30 29 26 22 20 20	159 89 61 46 37 31	14 11 11 8.3 7.5
MEAN MAX MIN IN.	506 6230 18 1.04	81.7 151 43 0.16 NTHLY MEAN	156 628 55 0.32	265 6450 50 0.54	515 8100 91 0.96	275 809 87 0.56	652 5250 105 1.30	2666 17200 154 5.48	391 4840 42 0.78	214 2870 20 0.44	61.3 572 9.3 0.13	11.2 26 5.8 0.02
MEAN MAX (WY) MIN (WY)	322 2076 1970 0.81 1954	218 1298 1973 1.03 1954	212 1040 1969 4.29 1954	351 1591 1949 5.57 1964	457 1866 1951 7.75 1954	626 3169 1973 11.9 1954	564 2256 1973 9.36 1956	612 2815 1970 29.7 1965	637 2548 1948 13.2 1952	320 2237 1951 4.41 1959	113 534 1950 1.78 1953	270 2987 1965 1.35 1960
SUMMARY	STATISTIC	CS	FOR 2	001 CALEN	DAR YEAR	:	FOR 2002 V	WATER YEAR		FOR F	ERIOD OF	RECORD
LOWEST ANIGHEST LOWEST ANNUAL SMAXIMUM MAXIMUM INSTANTANTANTANIGHT ANNUAL SO PERCE	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY PEAK STAG ANNEOUS LOI RUNOFF (II ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		486  14100 7.1 9.3 11.78 667 98 20	Feb 25 Aug 22 Aug 18		17200 5.8 6.8 19100 26.13 5.4 11.73 654 107	May 9 Sep 13 Sep 10 May 9 May 9 Sep 13,14		384 881 50.4 20800 0.10 0.21 24400 28.60 0.10 9.32 671 68 6.2	Jun Sep Sep Oct Oct Sep	1973 1954 23 1948 30 1956 24 1956 14 1969 14 1969 30 1956

e Estimated

# 06916675 MIAMI CREEK NEAR BUTLER, MO

LOCATION.--Lat 38°12'41", long 94°22'40", in NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  SEC.6, T.39 N., R.31 W., Bates County, Hydrologic Unit 10290102, on right downstream pier on county road bridge, 2.25 mi southwest of junction of Highways 71 and 52.

DRAINAGE AREA.--137 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2001 to current year.

SUMMARY STATISTICS

90 PERCENT EXCEEDS

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for discharges below 5  $\mathrm{ft}^3/\mathrm{s},$  which are poor.

		DISCHAF	RGE, CUBI	C FEET PE		WATER YE Y MEAN V	EAR OCTOBER ALUES	R 2001 TO	SEPTEMBE:	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.0 3.2 2.9 89 1580	1.9 1.9 1.9 1.6	0.93 0.84 0.75 0.82 0.89	0.74 0.68 0.61 0.54 0.50	385 126 70 51 36	8.4 9.5 11 11 11	3.8 3.9 3.7 3.2 3.0	56 44 34 27 20	35 28 24 20 29	1.0 0.69 0.53 0.40 0.39	1.4 0.93 0.76 0.62 0.52	0.02 0.02 0.02 0.05 0.11
6 7 8 9 10	626 66 32 18 16	1.9 2.8 2.5 2.1	0.86 1.2 1.8 1.6	0.76 0.94 0.93 1.1	26 22 20 18 15	13 23 36 28 21	2.7 2.7 2.7 3.2 4.3	15 240 1680 2140 1420	32 22 19 17 18	0.29 0.13 0.09 0.06 0.07	0.49 0.24 0.04 0.02 0.02	0.04 0.02 0.02 0.03 0.02
11 12 13 14 15	16 9.9 6.4 3.0 8.5	2.1 2.2 2.2 2.4 2.2	1.0 3.0 4.0 4.6 4.5	1.3 1.6 1.8 1.9	13 12 11 9.7 8.9	18 15 13 12	4.0 36 134 52 29	203 138 682 313 106	18 32 105 52 26	0.19 0.73 1.3 1.3 0.66	0.02 0.05 0.10 0.10 0.08	0.02 0.02 0.02 0.10 1.7
16 17 18 19 20	103 61 22 11 7.1	2.0 1.5 4.2 5.2 2.8	3.8 4.2 3.7 3.3 3.1	1.7 1.7 1.5 1.6	8.1 7.7 7.4 12 26	9.6 8.8 8.2 7.3 6.4	19 14 11 9.4 9.5	75 100 138 71 44	18 14 11 9.5 8.2	0.35 0.16 0.08 0.08 0.09	0.19 0.42 1.1 1.4 1.3	2.7 1.1 0.48 1.1 1.9
21 22 23 24 25	4.7 3.4 2.2 2.1 1.9	1.2 1.5 1.3 1.5	3.3 3.0 2.4 1.8 1.6	1.8 1.8 2.0 1.8 2.3	57 41 24 18 15	5.7 5.7 6.2 5.7	106 289 82 36 23	34 28 23 435 1820	6.7 5.7 4.3 3.3 2.6	0.08 0.08 0.13 0.51 0.58	1.2 0.94 0.75 0.56 0.59	2.0 2.0 1.7 1.4 1.2
26 27 28 29 30 31	1.4 1.3 1.4 1.5 2.0	2.0 1.6 1.2 0.96 0.98	1.5 1.4 1.5 1.4 1.1 0.92	1.9 1.7 1.5 1.4 25 458	11 8.9 8.7 	5.4 5.2 5.2 5.4 5.4	17 261 1320 211 85	1320 195 185 93 61 46	2.2 1.5 1.9 2.9 1.7	0.51 0.38 0.31 1.7 2.8 2.1	0.42 0.42 0.37 0.31 0.15 0.02	0.81 0.55 0.75 0.77 0.63
MEAN MAX MIN	87.3 1580 1.3	2.01 5.2 0.96	2.13 4.6 0.75	16.9 458 0.50	38.2 385 7.4	11.0 36 4.6	92.7 1320 2.7	380 2140 15	19.0 105 1.5	0.57 2.8 0.06	0.50 1.4 0.02	0.71 2.7 0.02

FOR 2002 WATER YEAR

0.19

ANNUAL MEAN	54.7	
HIGHEST DAILY MEAN	2140	May 9
LOWEST DAILY MEAN	0.02	Several Days
ANNUAL SEVEN-DAY MINIMUM	0.02	Sep 7
MAXIMUM PEAK FLOW	2180	May 9
MAXIMUM PEAK STAGE	19.38	May 9
INSTANTANEOUS LOW FLOW	0.01	Aug 31-Sep 4,
		Sep 7-9,13,14
10 PERCENT EXCEEDS	68	
50 DEPCENT EXCEEDS	2 7	

# 06917060 LITTLE OSAGE RIVER AT HORTON, MO

LOCATION.--Lat  $37^{\circ}59^{\circ}38^{\circ}$ , long  $94^{\circ}22^{\circ}07^{\circ}$ , in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec. 17, T.37 N., R.31 W., Vernon County, Hydrologic Unit 10290103, on left bank at the upstream side of the southbound bridge of U.S. Highway 71, 4 mi above Marmaton River, and 1 mi north of Horton.

DRAINAGE AREA. -- 498 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2000 to current year. Nov. 18, 1988 to Sept. 30, 2000, stage only.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above sea level.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1986 reached a stage of 59.4 ft (by U.S. Army Corps of Engineers).

		DISCHAR	GE, CUBIC	FEET PER		WATER Y	EAR OCTOBER ALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.7 3.3 3.2 4.5 24	4.1 3.8 13 9.3 7.2	9.7 8.7 7.9 7.3 6.5	5.2 4.7 4.4 4.0 3.9	989 e461 e278 e184 e149	36 37 36 37 41	18 16 14 13 11	e482 259 199 161 134	617 305 201 164 e141	60 40 30 25 23	0.80 1.8 1.9 0.60 0.02	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	124 209 133 89 211	5.4 4.5 4.2 4.5 4.6	6.3 6.2 5.8 5.4 5.0	4.2 4.3 4.2 4.2 4.5	e113 e94 e79 e65 e56	44 52 61 71 67	10 9.7 9.8 10	e239 e511 e2100 e4500 6150	130 142 155 148 601	19 17 16 11	0.01 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	215 157 90 47 31	4.2 3.8 3.7 3.5 3.2	4.9 5.9 8.3 9.8	5.0 5.4 5.6 5.7 5.7	e50 e46 e42 e38 e35	62 65 66 63 61	11 11 11 21 27	e2400 e1250 2930 e1440 e950	442 711 e1380 2280 e1350	23 28 64 26 13	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	33 60 90 60 34	3.0 2.8 3.4 4.5 4.4	14 17 18 17 16	5.8 5.8 5.8 6.2	e31 e28 26 25 29	56 52 48 45 42	26 21 18 16 18	e1310 1740 e1110 e725 e511	e726 328 215 172 143	8.6 6.2 5.0 9.1 9.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	20 13 11 9.4 8.2	4.3 4.6 6.4 6.8 6.4	14 13 11 9.8 9.0	6.3 6.4 6.8 7.2 7.6	40 65 74 58 50	40 38 35 32 30	449 707 362 223 163	e364 295 215 e436 e944	121 103 88 76 64	5.3 3.1 3.0 2.2 0.60	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	7.2 6.4 6.0 5.6 5.1 4.6	6.1 5.1 4.5 5.4 10	8.1 7.4 6.8 6.5 6.4 5.7	8.1 8.4 7.8 7.3 42 e417	46 42 38 	28 26 24 23 21 19	128 514 e1780 2140 e861	e2690 4500 e3210 e2240 e2380 1050	55 47 40 76 91	0.69 0.20 0.02 0.01 0.04 1.0	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
MEAN MAX MIN	55.4 215 3.2	5.22 13 2.8	9.30 18 4.9	20.2 417 3.9	115 989 25	43.8 71 19	254 2140 9.7	1530 6150 134	370 2280 40	14.8 64 0.01	0.16 1.9 0.00	0.00 0.00 0.00
STATIST	rics of Mc	NTHLY MEA	N DATA FO	R WATER Y	EARS 2001	- 2002	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	38.4 55.4 2002 21.3 2001	8.57 11.9 2001 5.22 2002	6.91 9.30 2002 4.52 2001	50.6 80.9 2001 20.2 2002	338 561 2001 115 2002	316 588 2001 43.8 2002	352 450 2001 254 2002	852 1530 2002 174 2001	592 812 2001 370 2002	60.3 106 2001 14.8 2002	9.20 18.2 2001 0.17 2002	2.82 5.64 2001 0.00 2002
SUMMARY	STATISTI	CS	FOF	2001 CAL	ENDAR YEA	AR.	FOR 2002	WATER YEA	AR.	WATER YE	ARS 2001 -	2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	MEAN T ANNUAL ME ANNUAL ME T DAILY MEA SEVEN-DAY M PEAK FLC APEAK STA TANEOUS LC TENT EXCEE TENT EXCEE	CAN CAN IN MINIMUM OGE OW FLOW CDS CDS		4330 0.62 1.6  622 40 3.6	Jun Aug 2 Aug 1	23	203 6150 0.00 0.00 Unknown 44.92 0.00 454 11	May 1 Many Day At Time May 1 May 1 Many Day	es .1 .1	0.00 Unknown 44.92	May 10 Many Days At Times May 11 May 11 Many Days	2002 2002 2002 2002

e Estimated

# 06917680 DRY WOOD CREEK NEAR DEERFIELD, MO

LOCATION.--Lat 37°47'52", long 94°30'54", in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.24, T.35 N., R.33 W., Vernon County, Hydrologic Unit 10290104, on left downstream pier on State Highway KK bridge, 7.2 mi southwest of Nevada.

DRAINAGE AREA.--358 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.-

SReco	ords good.	U.S.G.S.	satellit	e telemet	er at stat	tion.						
		DISCHAF	RGE, CUBI	IC FEET PEI		WATER YEA Y MEAN VAI		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.1 4.1 3.9 3.9 9.5	7.5 57 89 81 44	11 10 9.6 9.2 8.8	11 9.7 8.7 8.2 8.2	2300 521 232 167 127	26 30 38 56 59	27 26 24 23 20	197 150 114 92 76	176 139 113 96 83	33 25 22 20 20	8.2 8.0 7.0 6.2 5.4	2.1 2.0 2.2 2.8 5.0
6 7 8 9 10	121 86 38 26 1020	29 22 18 15 15	8.4 8.1 7.8 7.6 7.4	8.5 9.1 9.6 10	108 98 92 82 74	82 142 117 96 83	19 19 20 22 26	66 1020 7830 10400 7790	81 77 67 84 1190	19 18 16 15 14	4.8 4.4 4.0 3.7 3.9	8.8 12 6.7 4.7 3.7
11 12 13 14 15	531 94 50 34 25	16 14 13 12 11	7.2 7.0 7.2 28 53	11 12 13 14 12	64 56 51 47 44	76 65 59 54 51	29 35 32 28 26	4860 2310 3580 2130 605	329 2110 2280 1080 352	13 22 19 16 14	4.3 3.8 3.6 3.4 3.4	3.1 3.0 2.9 3.7 7.0
16 17 18 19 20	20 18 16 15	11 12 13 14 23	49 40 45 50 38	11 11 10 10	42 39 44 46 51	45 40 37 37 39	24 23 21 22 62	373 1770 3620 1290 468	172 132 106 90 74	12 11 10 9.9	3.4 4.6 5.2 4.7 4.2	27 19 11 9.7 9.6
21 22 23 24 25	13 12 10 9.6 7.9	26 23 19 17 15	29 24 21 19 16	11 12 13 14 16	59 56 46 40 36	43 42 36 33 33	469 251 119 83 62	313 235 186 1640 4670	61 52 44 39 34	12 11 9.3 8.4 8.2	4.5 4.4 3.9 3.1 2.9	19 14 9.6 7.1 5.7
26 27 28 29 30 31	7.3 7.4 8.5 8.9 8.3 7.7	15 14 14 13 12	14 13 13 12 12 12	17 17 16 14 25 2280	33 29 27 	33 34 32 31 30 29	51 1290 4090 2040 412	3560 1760 1570 577 316 228	31 29 26 53 50	8.1 7.3 6.3 6.9 6.9 9.0	2.9 2.7 2.3 2.2 2.2	4.6 4.1 3.5 3.0 2.8
MEAN MAX MIN	72.1 1020 3.9	22.8 89 7.5	19.3 53 7.0	85.2 2280 8.2	165 2300 27	51.9 142 26	313 4090 19	2058 10400 66	308 2280 26	14.0 33 6.3	4.18 8.2 2.2	7.31 27 2.0

SUMMARY STATISTICS	FOR 2002 W	ATER YEAR
ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS	262 10400 2.0 2.2 11100 22.56 1.9 321 20 4.4	May 9 Sep 2 Aug 28 May 9 May 9 Sep 2
90 PERCENT EXCEEDS	4.4	

# 06918065 MARMATON RIVER BELOW NEVADA, MO

LOCATION.--Lat  $37^{\circ}55^{\circ}07^{\circ}$ , long  $94^{\circ}21^{\circ}39^{\circ}$ , in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.8, T.36 N., R.31 W., Vernon County, Hydrologic Unit 10290104, on right bank at the upstream side of the southbound bridge of U.S. Highway 71, 21 mi above Osage River, and 4.2 mi north of Nevada.

DRAINAGE AREA. -- 1,090 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2000 to current year. Nov. 17, 1988, to Sept. 30, 2000, stage only station.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1986 reached a stage of 62.2 ft (by U.S. Army Corps of Engineers).

		DISCHARG	E, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TC	SEPTEMBER	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	14 14 14 14 28	19 43 136 109 93	16 15 14 13 13	16 15 15 13	3960 2950 1300 676 461	72 79 84 97 124	87 69 58 54 51	2170 941 632 479 350	e1200 842 468 332 270	100 76 65 58 61	e18 e16 e14 e13 e12	8.9 9.2 9.5 6.9 5.4
6 7 8 9 10	46 159 129 64 1080	73 58 45 35 29	13 13 27 37 29	e13 e14 e16 e17 e18	364 277 238 213 191	155 227 325 276 239	42 40 42 44 41	265 1100 6660 15500 21800	266 275 238 232 1110	53 50 48 46 46	e12 e14 14 12 11	4.0 4.4 11 18 14
11 12 13 14 15	2240 887 256 131 89	25 23 22 20 18	23 22 28 28 37	e20 e20 e19 e18 e17	168 145 121 107 97	211 188 165 153 142	44 51 54 52 50	e12000 e5000 e8000 e5000 e2600	1580 2460 5000 5100 4020	e54 e71 e94 e75 e50	12 11 11 13 11	12 9.9 8.1 9.0 15
16 17 18 19 20	68 52 43 36 31	17 16 17 22 22	60 62 56 57 63	e17 e16 e16 e15 e14	89 83 77 81 91	131 111 101 95 95	52 51 45 48 66	e2000 e2800 e4500 e3000 e1800	2310 954 526 376 287	e49 e48 e44 e46 e43	11 11 13 12	14 19 33 29 25
21 22 23 24 25	28 26 25 22 19	23 30 28 26 23	56 46 38 32 29	e15 e16 e18 e20 e24	98 110 122 122 106	91 92 92 85 78	302 1020 730 420 279	e1000 e750 e600 2220 5320	228 187 156 131 108	e40 e36 e32 e28 e26	12 13 13 13 13	24 27 28 22 17
26 27 28 29 30 31	17 16 15 16 15	21 19 17 17 16	25 22 21 19 17 16	e24 e22 e20 e18 30 1500	96 81 75 	75 73 74 72 87 103	209 1450 5040 5380 4400	5800 6160 e5200 e4200 e2800 e2000	95 84 79 95 118	e24 e22 e20 e18 e22 e20	12 11 11 8.4 7.7 8.3	15 12 11 9.5 9.2
MEAN MAX MIN	181 2240 14	35.4 136 16	30.6 63 13	65.5 1500 13	446 3960 75	129 325 72	676 5380 40	4279 21800 265	971 5100 79	47.3 100 18	12.1 18 7.7	14.7 33 4.0
STATIST	ICS OF MO	NTHLY MEAN	DATA FO	R WATER Y	EARS 200	1 - 2002,	BY WATER	YEAR (WY	")			
MEAN MAX (WY) MIN (WY)	119 181 2002 57.3 2001	43.9 52.5 2001 35.4 2002	28.8 30.5 2002 27.1 2001	193 321 2001 65.5 2002	1219 1992 2001 446 2002	643 1157 2001 129 2002	603 676 2002 530 2001	2299 4279 2002 319 2001	1288 1604 2001 971 2002	167 287 2001 47.3 2002	25.3 38.5 2001 12.1 2002	17.9 21.1 2001 14.7 2002
SUMMARY	STATISTI	CS	FOR	2001 CALE	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 2001	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME ANNUAL ME DAILY MEA DAILY MEA SEVEN-DAY PEAK STA 'ANNEOUS LOO' ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW DS		531 5070 13 14  1950 59 18	Feb Dec 4	-7	577 21800 4.0 6.9 22400 52.57 4.0 1360 46	May Sep Sep May May Sep	6 1 10 10	549 577 522 21800 4.0 6.9 22400 52.57 0.00 1790 48 15	Sep Sep May 1 May 1	2002 2001 10 2002 6 2002 1 2002 10 2002 10 2002 10 2000

e Estimated

#### 06918070 OSAGE RIVER ABOVE SCHELL CITY, MO

LOCATION.--Lat 38°03'20", long 94°08'44", in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.20, T.38 N., R.29 W., Bates County, Hydrologic Unit 10290105, on downstream side of left pier of bridge on State Highway M, 0.8 mi downstream from Shaw Branch, 0.2 mi upstream from McKenzie Creek, and 3.0 mi northwest of Schell City.

DRAINAGE AREA.--5,410 mi<sup>2</sup>, by U.S. Army Corps of Engineers.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- May 1981 to current year.

GAGE.--Water-stage recorder and slope gage 1.7 mi downstream. Datum of gage is 700.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records poor. Discharge is calculated using fall computations due to backwater from Harry S. Truman Reservoir. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge,  $133,000 \text{ ft}^3/\text{s}$ , Oct. 5, 1986.

		2100111	102, 0021	0 1 2 2 1 2 2	DAILY	MEAN VA	LUES	2001 10	, 521 121 1221	. 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	622	177	e900	337	4760	498	201	7670	11200	617	165	128
2	572	192	e1000	346	5060	482	205	3730	7600	546	171	119
3	564	199	e1050	332	3220	498	182	2260	5870	499	162	e115
4	545	225	1000	317	1830	509	165	1720	3820	496	156	e110
5	2210	238	975	314	1320	514	156	1340	3680	521	156	e105
6	3290	222	987	316	1080	549	149	1060	4850	478	164	e95
7	1950	208	999	310	928	547	148	2380	5260	467	166	89
8	1090	208	916	302	810	599	144	12000	5480	446	164	87
9	691	192	853	291	709	641	156	17800	5570	437	164	86
10	1740	187	721	248	612	620	157	23200	6350	415	168	78
11	2260	192	539	233	549	612	170	31900	7720	391	163	88
12	2040	193	522	267	500	591	214	34300	8130	397	166	86
13	1030	187	505	467	476	560	303	34900	11400	655	173	87
14	673	187	425	486	456	710	387	35500	13400	588	170	92
15	638	186	381	488	427	533	756	32400	13800	750	165	97
16	585	189	356	473	422	507	820	23400	10300	770	184	99
17	572	193	365	489	411	479	555	15700	5780	704	178	106
18	507	198	392	478	392	455	431	12200	3770	624	171	102
19	545	206	396	461	399	426	341	10800	2990	518	172	113
20	491	205	378	385	432	405	368	9660	2710	413	193	116
21	453	206	373	341	546	375	1490	6960	2480	291	177	119
22	425	211	349	340	779	335	2430	5670	1990	236	159	123
23	374	227	360	329	847	312	3530	4500	1760	231	146	115
24	321	e215	364	349	882	322	4440	8200	1500	229	127	118
25	271	e205	371	350	807	328	2620	17800	1220	213	129	112
26 27 28 29 30 31	242 199 196 195 185 183	e195 e190 e185 e185 e400	372 356 349 358 358 344	313 248 225 221 270 2160	687 606 533 	291 255 231 222 210 208	1490 2970 9380 11000 11000	23600 28000 31100 32200 29000 19600	1090 939 737 532 647	197 170 167 169 170 158	129 128 128 130 129 128	105 97 97 95 93
MEAN	828	207	568	403	1089	446	1879	16790	5086	418	158	102
MAX	3290	400	1050	2160	5060	710	11000	35500	13800	770	193	128
MIN	183	177	344	221	392	208	144	1060	532	158	127	78

e Estimated

# 06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1979 to September 1993, November 1994 to current year. Formerly published as Osage River near Schell City (06918080).

PERIOD OF DAILY RECORD . --

SPECIFIC CONDUCTANCE: March 1979 to September 1981. WATER TEMPERATURE: March 1979 to September 1981. SUSPENDED-SEDIMENT: February 1991 to September 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum daily, 1,950 microsiemens per centimeter, Oct. 11, 1980; minimum daily, 114 microsiemens per centimeter, June 12, 1981.

Centimeter, June 12, 1981.

WATER TEMPERATURE: Maximum daily, 32.0 °C, July 11, 1980; minimum daily, 0.0 °C, Feb. 5, 1980, and Feb. 11-14, 1981.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 4,020 mg/L, Feb. 21, 1997; minimum daily mean, 8 mg/L, Aug. 4 and 5, 1002, and Ten. 10.12, 1005. 1993, and Jan. 10-12, 1995.

SUSPENDED-SEDIMENT LOAD: Maximum daily, 160,000 tons, Feb. 21, 1997; minimum daily, 1.7 tons, Nov. 7-13, 1991.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 28	1310	ENVIRONM	ENTAL	185	8.6	73	8.0	521	7.6	210	62.7	14.1	5.00
MAR 11	1345	ENVIRONM	ENTAL	612	11.3	97	8.3	606	7.7				
APR 15	1610	ENVIRONM	ENTAL	949	9.9	113	8.1	522	20.0				
MAY 22	1430	ENVIRONM		6400	6.5	72	7.9	370	18.7	170	54.5	7.51	3.55
JUN													
17 JUL	1245	ENVIRONM		5600	4.7	58	7.4	300	24.0				
24	1320	ENVIRONM	ENTAL	229	1.6	22	8.0	446	31.4				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 28	24.7	151	151	184	0	19.1	.3	91.2	24	332	<.04	.75	<.05
MAR 11		126	125	143	5				50		<.04	.73	.09
APR 15		176	178	217	0				183		<.04	1.1	.09
MAY	9.32	124	124	152	0	5.97	.2	22.6	49	194		.86	
22 JUN						5.97		33.6			E.02		.65
17 JUL		107	106	129	0				252		<.04	1.5	.35
24		137	137	167	0				E90		<.04	.75	. 49
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV													
28 MAR	<.008	E.03	<.02	.09	K32	K43	K14	33	423	.8	<.04	<.1	<6
11 APR	E.006	<.06	<.02	.09	K4	K16	K38						
15 MAY	.015	E.04	E.01	.26	160	164	164						
22	.026	.10	.06	.16	71	88	152	108	760	1.6	E.02	E.1	<6
JUN 17	.084	.10	E.01	.35	54	290	450						
JUL 24	.009	E.06	.05	.17	K8	K14	104						

# 06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
NOV 28 MAR	66	.09	1	97.1	E.01	<.3	38	9	<.002	<.004	<.002	<.005	.304
11 APR									<.006	<.006	<.004	<.005	.471
15									<.006	.064	<.004	<.005	.831
MAY 22 JUN	240	.32	2	61.6	E.01	1.1	49	6	<.006	.110	.044	<.005	2.38
17									<.006	.196	.294	<.005	3.77
JUL 24									<.006	.050	.095	<.005	.852
DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)
NOV 28 MAR	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.054	<.005	<.005	<.02	<.002	<.009
11	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.068	<.005	<.005	<.02	<.002	<.009
APR 15	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.081	<.005	<.005	<.02	<.002	<.009
MAY 22	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.218	<.005	<.005	<.02	<.002	<.009
JUN 17	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.265	<.005	<.005	<.02	<.002	<.009
JUL 24	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.135	<.005	<.005	<.02	<.002	<.009
DATE	ETHO- PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
NOV 28	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.042	<.006	<.002	<.007	<.003	<.007
MAR 11	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.019	<.006	<.002	<.007	<.003	<.010
APR 15	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.088	<.006	<.002	<.007	<.003	<.010
MAY 22	<.005	<.003	<.004	<.035	<.027	<.050	<.006	. 295	<.006	<.002	<.007	<.003	<.010
JUN 17	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.613	.035	<.002	<.007	<.003	<.010
JUL 24	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.197	<.006	<.002	<.007	<.003	<.010

# 06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 $\mu$ GF, REC ( $\mu$ g/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
NOV													
28	<.002	<.010	<.006	<.011	E.01	<.004	<.010	<.011	<.30	E.009	<.02	<.034	<.02
MAR													
11	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	.009	<.02	<.034	<.02
APR													
15	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	.013	<.02	<.034	<.02
MAY	. 004	. 000	. 006	. 011	. 01	. 004	. 010	. 011	. 00	010	. 00	. 024	. 00
22	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.012	<.02	<.034	<.02
JUN	. 004	. 000	. 000	. 011	. 01	- 004	- 010	- 011	. 00	- 005	. 00	. 024	- 00
17 JUL	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
24	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	.010	<.02	<.034	<.02

DATE	THIO- BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L)	0.7 μ GF, REC (μg/L)	0.7 μ GF, REC (μg/L)
	(82681)	(82678)	(82661)
NOV 28	<.005	<.002	<.009
MAR 11 APR	<.005	<.002	<.009
15	<.005	<.002	<.009
MAY 22 JUN	<.005	<.002	<.009
17	<.005	<.002	<.009
JUL 24	<.005	<.002	<.009

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 06918440 SAC RIVER NEAR DADEVILLE, MO

LOCATION.--Lat  $37^{\circ}26'35"$ , long  $93^{\circ}41'05"$ , in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.9, T.31 N., R.25 W., Dade County, Hydrologic Unit 10290106, on downstream side of bridge on State Highway 245, 2 mi upstream from Cave Spring Branch, and 2 mi south of Dadeville.

DRAINAGE AREA. -- 257 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1966 to current year. Annual maximum only, for water years 1965-66.

GAGE.--Water-stage recorder. Datum of gage is 869.78 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission). Prior to June 1966, crest-stage gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHARO	E, CUBIC	FEET PER		IATER Y MEAN V	EAR OCTOBER ALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	55	87	166	1030	160	349	285	e940	134	51	25
2	16	84	92	156	751	190	329	268	e850	132	46	24
3	15	105	92	148	612	197	302	250	e750	142	42	24
4	15	103	91	142	519	196	281	234	e680	133	39	23
5	25	92	86	138	458	207	265	221	e600	125	37	21
6 7 8 9 10	26 25 23 23 1850	84 77 70 66 61	80 74 69 63 59	135 128 122 120 116	420 388 356 334 311	247 271 278 280 262	251 241 252 248 231	211 285 4840 4800 2730	e530 e485 e436 e400 e360	119 113 108 104 101	34 33 33 31 31	19 19 19 17
11	432	57	56	111	288	253	218	1580	e323	99	34	17
12	414	53	97	107	273	246	209	1720	e295	102	35	17
13	324	49	161	104	256	235	201	3510	e267	109	32	16
14	252	47	183	101	243	227	289	2490	e245	102	38	16
15	207	45	180	95	232	219	269	2110	e223	95	34	19
16	185	41	272	92	219	213	244	2010	e208	89	31	24
17	e163	39	722	89	208	205	230	2610	e190	88	30	22
18	142	38	700	87	198	195	214	3270	e177	89	36	21
19	128	43	548	89	203	220	206	e1800	e165	125	44	22
20	111	45	452	85	218	283	367	e1230	153	124	49	23
21	102	41	394	84	205	311	740	872	e142	117	39	19
22	95	39	359	81	194	314	577	e1020	e133	96	32	17
23	84	40	328	81	189	313	488	e1340	e125	89	31	14
24	85	89	296	85	185	304	438	e1800	e118	79	41	12
25	90	82	270	87	179	595	388	2860	e112	73	49	11
26 27 28 29 30 31	83 77 72 68 64 59	73 65 60 61 70	250 233 217 203 187 176	87 85 84 83 189 828	172 166 162 	624 546 496 454 412 377	370 359 343 312 295	e2400 e2000 e1650 e1430 e1240 e1100	176 163 157 149 141	68 64 59 56 56	35 33 30 28 26 25	11 10 10 10 9.9
MEAN	170	62.5	228	132	320	301	3167	1747	323	98.2	35.8	17.6
MAX	1850	105	722	828	1030	624	740	4840	940	142	51	25
MIN	15	38	56	81	162	160	201	211	112	54	25	9.9
IN.	0.76	0.27	1.02	0.59	1.30	1.35	1.38	7.84	1.40	0.44	0.16	0.08
MEAN	138	290	295	232	291	428	396	392	216	114	61.7	108
MAX	780	1139	1058	743	918	1170	1427	1747	820	392	205	1545
(WY)	1987	1986	1993	1991	1985	1975	1994	2002	1995	1993	1968	1993
MIN	16.6	16.8	19.7	14.0	23.5	29.2	30.1	30.1	39.2	22.1	10.1	6.78
(WY)	1992	1981	1977	1981	1981	1996	1981	1977	1972	1980	1980	1980
SUMMARY	STATISTI	CS	FOR 2	001 CALEN	DAR YEAR		FOR 2002 WA	TER YEAR		WATER YEA	ARS 1966	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			3310 15 16  7.61 272 77 24	Feb 25 Oct 3,4 Sep 28		314 4840 9.9 11 8080 18.17 9.4 16.60 617 135 25	May 8 Sep 30 Sep 24 May 8 May 8 Sep 30		246 560 50.2 23300 4.5 5.3 36100 27.56 3.8 13.05 537 112 24	Sep 1 Sep 1 Sep 2 Sep 2	1993 1977 25 1993 4 1980 1 1980 15 1993 25 1993 8 1996	

e Estimated

#### 06918460 TURNBACK CREEK ABOVE GREENFIELD, MO

LOCATION.--Lat 37°24'09", long 93°48'06", on line between secs.21 and 28, T.31 N., R.26 W., Dade County, Hydrologic Unit 10290106, on left downstream side of bridge pier on State Highway O, 1.5 mi downstream from Limestone Creek, and 2.0 mi southeast of Greenfield.

DRAINAGE AREA. -- 252 mi<sup>2</sup>.

PERIOD OF RECORD. -- September 1965 to current year.

REVISED RECORDS.--WDR MO-84-1: 1968, 1970, 1972-74, 1976, 1978-79, 1983 (M). WDR MO-93-1: 1987 (M).

GAGE.--Water-stage recorder. Datum of gage is 870.49 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission).

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHARO	E, CUBIC	C FEET PER		WATER Y	EAR OCTOBER ALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20 20 19 18 29	67 76 84 86 81	83 87 88 86 84	e150 e139 e131 e124 e118	1030 806 674 570 496	138 174 194 193 196	357 331 301 279 262	295 273 255 240 226	e820 e750 e675 e610 e550	113 112 119 114 110	103 97 90 84 79	25 24 23 20 19
6 7 8 9 10	33 34 30 33 2420	77 75 72 68 66	81 78 75 71 68	e112 e106 102 97 95	446 406 368 339 308	278 294 307 303 277	248 242 264 267 251	215 263 8210 3680 1730	e502 e460 e420 e387 e355	103 98 93 89 86	74 72 70 66 63	18 16 15 13
11 12 13 14 15	587 444 334 263 219	64 61 59 56 55	66 92 148 168 185	91 88 86 82 79	282 264 241 223 208	261 248 234 223 210	241 231 221 297 279	1210 1500 2920 e1650 e1000	e325 e300 e278 e258 e242	98 92 257 154 126	70 60 56 58 53	12 13 16 21 26
16 17 18 19 20	189 167 152 136 123	52 51 51 54 52	273 705 690 564 464	76 75 73 73 71	192 180 170 180 219	203 188 179 217 332	254 241 226 216 453	e1200 e1600 2140 e1400 e1040	e228 e213 197 185 174	111 112 1320 699 483	49 47 69 65 53	33 34 32 42 46
21 22 23 24 25	114 105 100 117 105	50 50 48 80 82	399 353 310 279 253	70 70 69 71 73	186 174 169 164 158	328 320 314 302 700	765 596 503 446 390	e830 695 e620 2140 e1900	164 157 151 144 139	314 246 297 222 190	46 40 38 39 44	22 18 17 17 17
26 27 28 29 30 31	93 84 79 75 71 69	80 78 78 77 79	233 217 201 186 171 160	71 69 68 67 216 1090	152 144 139 	637 580 531 484 434 391	373 362 341 306 288	e1680 e1470 e1300 e1180 e1020 e930	144 139 133 125 119	168 151 138 125 118 111	38 35 32 29 28 26	16 16 16 15 15
MEAN MAX MIN IN.	203 2420 18 0.93	67.0 86 48 0.30	223 705 66 1.02	126 1090 67 0.58	317 1030 139 1.31	312 700 138 1.43	328 765 216 1.45	1446 8210 215 6.62	312 820 119 1.38	212 1320 86 0.97	57.2 103 26 0.26	21.0 46 12 0.09
							, BY WATER					
MEAN MAX (WY) MIN (WY)	151 921 1987 23.4 1979	306 1385 1986 21.7 1981	291 982 1988 20.2 1990	242 765 1973 19.9 1981	319 1020 1985 27.5 1981	455 1377 1973 27.1 1996	433 1410 1994 39.3 1981	398 1797 1990 93.9 1981	249 874 1993 44.3 1972	156 636 1992 24.2 1972	88.2 354 1982 14.4 1980	129 1579 1993 11.6 1980
SUMMARY	Y STATISTI	CS	FOF	R 2001 CAL	ENDAR YEA	AR.	FOR 2002	WATER YE	AR	WATER YE	ARS 1965	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANT ANNUAL 10 PERC	MEAN  F ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY M PEAK FLO M PEAK STA FANEOUS LO RUNOFF (I CENT EXCEE CENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		3550 18 20  8.97 324 95 26	Feb 2 Oct Sep 2	4	303 8210 12 14 15500 20.75 11 16.33 674 148 33	May Sep Sep May May Sep	11 7 8 8	267 612 84.1 23700 9.4 10 44000 26.34 9.4 14.42 575 129 32	Oct 1 Oct Oct Sep 2	1993 1981 25 1993 12 1980 8 1980 1 1986 25 1993 12 1980

e Estimated

# 06918493 SOUTH DRY SAC RIVER NEAR SPRINGFILED, MO

LOCATION.--Lat 37°15'58", long 93°14'56", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.5, T.29 N., R.21 W., Greene County, Hydrologic Unit 10290106, on downstream side of right wingwall on Barnes Road and 1 mile north of Springfield.

DRAINAGE AREA.--13.7  $\min^2$ .

PERIOD OF RECORD.--August 30, 1996 to present.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

		DISCHARG	E, CUBIC	FEET PER		WATER YEA MEAN VAI	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.8 2.7 2.6 2.6 6.5	4.7 13 12 9.2 7.8		7.9 7.3 6.9 6.7 6.4	71 45 36 30 26	8.6 22 20 18 17	30 31 25 10 16	18 17 14 13 12	25 23 22 20 19	4.1 4.1 4.2 4.2 3.9	3.3 3.3 3.2 3.1 3.0	3.0 2.8 2.8 2.7 3.2
6 7 8 9 10	4.4 4.5 4.5 4.5 18	7.0 6.4 6.1 5.5 5.3	4.7 4.3 4.2 3.9 3.7	6.2 6.0 5.8 5.8	24 22 19 17 16	17 16 15 14 14	19 13 23 23 18	12 72 436 134 78	19 17 16 15 14	3.8 3.8 3.8 3.6 3.9	3.0 2.9 2.8 2.8 2.8	2.7 2.6 2.4 2.4 2.4
11 12 13 14 15	21 15 12 11 9.5	5.1 5.0 4.8 4.5 4.3	3.6 7.2 12 12 11	5.5 5.5 5.4 5.3 5.2	14 13 12 12 11	12 12 11 11 10	16 14 12	63 59 102 71 58	13 19 15 13	5.4 11 10 7.4 7.2	2.7 2.8 3.7 3.4 3.0	2.4 2.4 2.3 2.4 2.6
16 17 18 19 20	9.7 8.4 7.3 6.6 6.1	4.2 4.2 4.0 4.0 4.0	87 94 48 36 29	5.1 5.1 5.1 5.1 5.1	11 9.7 9.4 11 14	9.7 9.2 9.1 24 32		51 338 122 96 77	10 9.4 8.6 7.8 7.2	5.2 4.5 6.2 9.0 8.6	2.8 8.7 8.9 4.6 3.8	2.3 2.4 2.3 3.0 3.6
21 22 23 24 25				5.0 5.0 5.5 7.0 7.4	13 12 11 10 9.4	24 21 20 19 113	e40 32 e27 e22 20	66 56 50 48 43	7.2 6.5 5.6 5.1 4.7	7.1 5.4 5.3 4.7 4.3	3.4 3.1 3.8 10 9.1	2.6 2.2 2.1 2.0 1.9
26 27 28 29 30 31	6.8 6.0 5.5 5.3 5.1	3.7 3.6 3.6 3.8 6.4	13 12 11 10 9.1 8.4	6.9 6.5 6.3 6.4 31 185	9.2 8.8 8.2 	50 49 47 28 15 25	22 24 24 20 18	39 35 33 32 29 27	4.7 4.5 4.4 4.3 4.2	4.2 4.0 4.0 3.9 3.5 3.4	5.5 4.1 4.1 3.5 3.4 3.1	1.8 1.7 1.7 1.7
MEAN MAX MIN	7.41 21 2.6	5.38	17.7 94 3.6	12.6 185 5.0	18.0 71 8.2	23.0 113 8.6	19.2 40 8.3	74.2 436 12	11.9 25 4.2	5.28 11 3.4	4.12 10 2.7	2.41 3.6 1.7
							BY WATER					
MEAN MAX (WY) MIN (WY)	6.23 11.2 1999 1.60 2000	13.6 58.3 1997 1.78 1998	10.8 21.5 1997 2.96 2001	10.1 15.7 1998 2.97 2000	22.1 35.3 2001 4.16 2000	27.7 57.3 1998 5.78 2000	18.5 51.3 1999 3.85 2000	24.5 74.2 2002 2.19 2000	9.94 17.0 1999 5.94 1997	17.1 63.2 2000 2.08 1997	4.98 8.83 1998 2.83 1999	4.21 8.17 1996 1.72 1999
SUMMARY	STATISTI	CS	FOR 2	001 CALENI	DAR YEAR	F	OR 2002 WA	TER YEAR		WATER YEA	ARS 1996	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			241 1.6 1.9  19 6.0 3.5	Feb 24 Jan 5 Jan 1		16.8 436 1.7 Se 1.8 1140 5.87 1.6 Se 32 7.8 2.9	May 8 ep 27-29 Sep 24 May 8 May 8 ep 29,30		14.1 18.2 9.17 1320 0.54 0.68 Unknown 9.80 0.00 29 5.8 1.9	Jul 1 Jul 1	1999 2001 .2 2000 80 1996 .12 2000 .12 2000 .15 1997	

e Estimated

# 06918600 LITTLE SAC RIVER NEAR WALNUT GROVE, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°23'55", long 93°24'36", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.24, T.31 N., R.23 W., Greene County, Hydrologic Unit 10290106, approximately 7.5 mi east of Walnut Grove at bridge on Highway BB.

DRAINAGE AREA. -- 119 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1974 to 1978, 1984 to 1986, 1988 to 1990, 1994 to 1996, October 1999 to current year. Published as "at Walnut Grove", for periods of record from 1994 to 2000.

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 04	1550	ENVIRONMENTAL	8.1	10.4	117	8.1	671	19.7				
NOV 26 26	1430 1500	BLANK ENVIRONMENTAL	 22	 10.6	103	 7.9	 601	 11.9	 230	 78.4	 9.39	4.00
DEC 10	1130	ENVIRONMENTAL	18	12.7	105	8.0	619	5.9				
JAN 08 08	1415 1420	ENVIRONMENTAL REPLICATE	36 	16.6	134	8.1	509 	4.5	240 230	83.4 79.5	8.00 7.64	3.29 3.11
FEB 12	1215	ENVIRONMENTAL	78	12.6	106	7.9	466	6.5				
MAR 13	0950	ENVIRONMENTAL	78	12.4	113	8.2	452	9.0				
APR 15 15	1230 1231	ENVIRONMENTAL REPLICATE	111	10.1	112	8.2	443	18.6				
MAY 20	1520	ENVIRONMENTAL	526	10.8	113	8.0	427	16.3	200	72.2	5.09	1.62
JUN 19	0845	ENVIRONMENTAL	51	6.4	75	8.1	509	21.2				
JUL 22	1425	ENVIRONMENTAL	24	8.7	116	8.1	521	27.7	210	73.9	6.27	4.29
AUG 27	1010	ENVIRONMENTAL	26	5.9	72	7.8	485	23.0				
SEP 11	0930	ENVIRONMENTAL	8.0	4.8	59	7.9	668	23.1				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC ANC WATER WATER UNFLITRD UNFLIT FET IT FIELD FIELL (mg/L as (mg/L CaCO <sub>3</sub> ) CaCC (00410) (00415)	RD BONATE IT FIELD as (mg/L as 3) HCO3)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 04	DIS- SOLVED (mg/L as Na)	WATER WATER UNFLTRD UNFLTR FET IT FIELD FIELD (mg/L as (mg/L CaCO <sub>3</sub> ) CaCO	R BICAR- RD BONATE IT O FIELD as (mg/L as 0 <sub>3</sub> ) HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT	DIS- SOLVED (mg/L as Na) (00930)	WATER WATER UNFLITED UNFLIT FET IT FIELD FIELD (mg/L as (mg/L CaCO <sub>3</sub> ) CaCC (00410) (00419	R BICAR- RD BONATE IT FIELD as (mg/L as $0_3$ ) HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 04 NOV 26	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED UNFLIT FET ILLL (mg/L as (mg/L CaCO <sub>3</sub> ) CaCC (00410) (00415)  201 201 201	R BICAR- BONATE IT FIELD as (mg/L as (3) HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 04 NOV 26 26 DEC 10 JAN 08	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTR UNFLTR UNFLTR UNFLTR UNFLT IT FIELD (mg/L as (mg/L CaCO <sub>3</sub> ) CaCC (00410) (0041:  201 201 201  232 233	R BICAR- RD BONATE IT D FIELD as (mg/L as 3) HCO3) 0 (00450)  245  284	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 20	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .66  <.05 .91
OCT 04 NOV 26 26 DEC 10 JAN 08 08 FEB 12	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITE	R BICAR- RD BONATE	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  49.0	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  16.4 14.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .34 <.10 .36	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .666 <.05 .91 1.03 1.30
OCT 04 NOV 26 26 DEC 10 JAN 08 88 FEB 12 MAR 13	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITE UNFLITE TET UNFLITE TET UNFLITE CACO_3 CACC (00410) (0041)  201 201 201  232 233  232 235  224 226	R BICAR- RD BONATE	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  49.0	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  16.4  14.2 14.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 E.02	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .34 <.10 .36 .25 23	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .66 <.05 .91 1.03 1.30 1.28
OCT 04 NOV 26 26 DEC 10 JAN 08 FEB 12 MAR 13 APR 15	DIS- SOLVED (mg/L as Na) (00930)  31.9  17.4 17.1	WATER UNFLITE UNFLITE CACO. 1 CACO. 1 CACO. 1 CACO. 2	R BICAR- RD BONATE	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  49.0  30.1 29.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 16.4 14.2 14.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .34 <.10 .36 .2523	GEN, NO <sub>2</sub> +NO <sub>3</sub> D1S-SOLVED (mg/L as N) (00631)  .66 <.05 .91 1.03 1.30 1.28 E1.82
OCT 04 NOV 26 26 DEC 10 JAN 08 FEB 12 MAR 13 APR 15 15 MAY 20	DIS- SOLVED (mg/L as Na) (00930)  31.9  17.4 17.1	WATER UNFLITE UNFLITE FET IT FIELD (mg/L as (mg/L (00410)) (00419)  201 201 201  232 233  232 235  224 226  192 194  176 176  189 189	R BICAR- RD BONATE	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  49.0  30.1 29.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 16.4 14.2 14.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .34 <.10 .36 .2523 .16 .23	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .666 <.05 .91 1.03 1.30 1.28 E1.82 .99 .85
OCT 04 NOV 26 26 DEC 10 JAN 08 08 FEB 12 MAR 15 15 15 MAY 20 JUN 19	DIS- SOLVED (mg/L as Na) (00930)  31.9  17.4 17.1	WATER UNFLITE UNFLITE FET IT FIELD (mg/L as (mg/L CaCO <sub>3</sub> ) CaCC (00410) (00419)  201 201 201  232 233  232 235  224 226  192 194  176 176  189 189  189	R BICAR- RD BONATE	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0  0 0 0  0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  49.0  30.1 29.5	RIDE, DIS- SOIVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10 <10 <11 18 13	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  274 300 296	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .34 <.10 .36 .2523 .16 .23 .42 .42	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .666 <.05 .91 1.03 1.30 1.28 E1.82 .99 .85 .84
OCT     04     NOV     26     26     10     JAN     08     FEB     12 MAR     13 APR     15 MAY     20 JUN     19 JULL     22	DIS- SOLVED (mg/L as Na) (00930)  31.9  17.4 17.1   7.26	WATER UNFLITE UNFLITE FET UNFLITE FET UNFLITE FIELD (mg/L as (mg/L CaCO <sub>3</sub> ) (cacCo (00410)) (0041s)  201 201 201  232 233  232 235  224 226  192 194  176 176 176  189 189  178 180	R BICAR- RD BONATE IT O FIELD as (mg/L as 2) (00450)  245  284  287  276  237  215  230  219	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  00 0 0 00 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  49.0  30.1 29.5	RIDE, DIS- SOLVED (mg/L as F) (00950)  .2  .2  E.1 .1   .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  16.4 14.2 14.1 9.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)(70300)  274 300 296 243	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 E.02 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .34 <.10 .36 .2523 .16 .23 .42 .42 .27	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .66 <.05 .91 1.03 1.30 1.28 E1.82 .99 .85 .84 1.34
OCT 04 NOV 26 26 DEC 10 JAN 08 FEB 12 MAR 13 APR 15 15 MAY 20 JUN 19	DIS- SOLVED (mg/L as Na) (00930)  31.9  17.4 17.1   7.26	WATER UNFLITE UNFLITE FET IT FIELD (mg/L as (mg/L cacco) (00410) (0041)  201 201	R BICAR- RD BONATE	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  49.0 30.1 29.5  12.7	RIDE, DIS- SOLVED (mg/L as F) (00950)  -2  .2  E.1 .1   <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  16.4 14.2 14.1 9.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  274 300 296 243	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 E.02 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .34 <.10 .36 .2523 .16 .23 .42 .42 .42 .27 .26	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .666 <.05 .91 1.03 1.30 1.28 E1.82 .99 .85 .84 1.34 2.11

# 06918600 LITTLE SAC RIVER NEAR WALNUT GROVE, MO--Continued (Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 04	E.005	.16	.13	.16	42	86	48						
NOV 26 26	<.008 E.006	<.06 .06	<.02	<.06 .07	 K5	 140	 41	 14	 52	.3	 .06	 <.1	 <6
DEC 10	E.004	.09	.08	.11	K18	24	26				.00		
JAN 08	E.007	<.06	<.02	<.06	K1	K16	K15	13	30	.3	.03	<.1	<5
08 FEB	.013	<.06	<.02	<.06				15	30	.3	E.03	<.1	<6
12 MAR	<.006	<.06	E.02	E.04	К2	K10	K10						
13 APR	E.004	<.06	<.02	<.06	K18	К6	K7						
15 15	E.007 .008	E.05 E.05	.03	.06 .08	160 140	K755 K795	180 160						
MAY 20	.015	.07	.04	.08	98	290	92	23	113	<.2	<.04	<.1	E4
JUN 19	.013	.10	.07	.10	120	130	155						
JUL 22	.011	.20	.18	.21	49	130	96	2	156	.8	.08	<.1	E4
AUG 27	E.004	.21	.17	.21	K30	240	280						
SEP 11	E.004	.34	.33	.37	110	240	360						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 0	4											
	NOV 2	6											
		6	22	.22	<1	17.5	E.01	<.3		18			
		0											
	0	8	27	.14	<1	8.8	<.01	. 2		7			
	FEB		28	.14	<1	8.4	<.01	. 4		7			
	1 MAR	2											
	1 APR	3											
	1	5 5											
	MAY 2	0	19	E.07	<1	13.0	<.01	E.2		4			
		9											
	JUL 2	2	<10	.18	1	16.8	<.01	<.3	8	9			

AUG 27... SEP 11...

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.  $<--Numeric \ result$  is less than the value shown.

# 06918740 LITTLE SAC RIVER NEAR MORRISVILLE, MO

LOCATION.--Lat  $37^{\circ}28^{\circ}58^{\circ}$ , long  $93^{\circ}29^{\circ}07^{\circ}$ , in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.20, T.32 N., R.23 W., Polk County, Hydrologic Unit 10290106, on downstream side of center pier of Hamilton Bridge on State Highway 215, 0.7 mi upstream from Slagle Creek, and 3 mi west of Morrisville.

DRAINAGE AREA. -- 237 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1968 to current year.

REVISED RECORDS.--WDR MO-84-1 1969-70, 1972-75, 1977-79, 1981, 1983 (M).

GAGE.--Water-stage recorder. Elevation of gage is 881 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHARG	E, CUBIC	C FEET PER		WATER YE MEAN VA	AR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	7.2 6.8 5.9 5.7	34 70 126 120 107	117 110 100 89 83	e109 e101 e95 e89 e84	1460 768 561 442 377	101 185 235 215 224	258 247 224 206 188	258 232 213 194 180	257 238 218 207 244	37 36 39 42 43	15 14 13 14 14	13 14 13 11
6 7 8 9 10	20 27 19 15 2200	93 80 65 61 55	74 64 55 48 43	e79 74 71 66 63	343 315 281 259 243	280 254 236 223 199	178 180 201 213 196	168 862 6890 3470 1530	208 182 166 165 162	37 35 33 32 33	13 11 10 11 9.9	9.5 8.7 8.6 7.9 6.5
11 12 13 14 15	423 415 273 206 166	46 40 37 35 33	39 95 274 234 203	59 57 55 52 49	220 205 187 174 162	186 176 163 154 156	177 163 155 490 273	964 1830 4400 1330 859	148 148 157 131 115	40 39 68 60 51	11 13 21 16 16	5.6 5.8 6.6 10 e13
16 17 18 19 20	154 137 122 108 97	32 32 30 33 37	906 1810 839 516 388	45 45 44 49 49	149 140 133 140 167	144 135 126 208 439	216 195 182 177 759	663 3680 2280 1200 848	105 95 86 78 69	44 44 40 53 57	13 12 16 54 38	17 e14 17 e14 e12
21 22 23 24 25	88 80 74 84 89	38 35 34 38 42	321 278 241 212 188	46 45 50 72 104	150 138 130 124 119	357 290 260 242 942	1140 588 437 371 319	683 571 487 756 658	64 60 55 51 50	57 34 29 26 23	23 e20 e18 e16 e15	18 17 11 7.6 5.8
26 27 28 29 30 31	69 54 46 41 38 38	39 38 38 41 66	172 160 146 132 123 116	97 88 83 91 612 2400	110 103 101 	702 511 436 378 318 275	312 329 320 274 254	481 404 362 355 320 285	58 51 46 41 39	21 19 17 16 14 15	36 28 24 20 16 15	6.2 5.9 5.6 5.2 4.3
MEAN MAX MIN IN.	165 2200 5.7 0.80	52.5 126 30 0.25	264 1810 39 1.28	162 2400 44 0.79	275 1460 101 1.21	282 942 101 1.37	307 1140 155 1.45	1207 6890 168 5.87	123 257 39 0.58	36.6 68 14 0.18	18.2 54 9.9 0.09	10.1 18 4.3 0.05
MEAN MAX (WY) MIN (WY)	125 809 1987 10.2 1996	306 1256 1986 10.5 2000	279 1045 1988 10.7 1990	226 752 1991 9.05 1981	287 1139 1985 29.4 1996	- 2002, 450 1290 1973 29.2 1996	405 1409 1994 32.7 1981	349 1359 1990 23.7 2000	200 968 1995 20.7 1972	85.6 387 2000 11.6 1980	36.1 145 1988 4.90 1980	120 1691 1993 3.15 1980
SUMMAR	Y STATISTI	CS	FOF	R 2001 CAL	ENDAR YEA	R	FOR 2002	WATER YEA	R	WATER Y	EARS 1969	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			6330 5.7 7.3  8.65 272 73 18	Feb 2 Oct Sep 2	4	243 6890 4.3 5.8 10600 17.03 3.0 13.92 483 91	May Sep 3 Sep 2 May May Sep 3	0 4 8 8	238 516 58.6 18600 0.60 1.6 29100 23.33 0.30 13.67 517 81	Sep Aug Sep Sep	1973 1977 25 1993 15 1980 27 1980 25 1993 25 1993 15 1980	

e Estimated

#### 06918990 STOCKTON LAKE NEAR STOCKTON, MO

LOCATION.--Lat 37°41'38", long 93°45'55", SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.10, T.34 N., R.26 W., Cedar County, Hydrologic Unit 10290106, in power house at dam on Sac River, 2 mi east of Stockton.

DRAINAGE AREA. -- 1,160 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1969 to current year.

GAGE.--Water-stage recorder. Nonrecording gage prior to May 30, 1973. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rock shell earthfill type dam. Spillway is equipped with 4 tainter gates, 40 ft by 30.5 ft, crest elevation, 861.5 ft. Embankment closed and river diverted on Sept. 23, 1968. Gates closed and storage began on Dec. 12, 1969; minimum power elevation 830.0 ft reached on May 1, 1970. Gross storage at top of flood control pool is 1,666,659 ac-ft at elevation 892.0 ft, of which 779,550 ac-ft between elevations 867.0 ft and 892.0 ft is used for flood control, and 887,109 ac-ft between elevations 760.0 ft and 867.0 ft is used for multipurpose and power. Sedimentation reserve is 25,000 ac-ft. Lake is used for flood control, power, and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,450,000 ac-ft, Apr. 28, 1973, elevation, 885.94 ft; minimum, since initial filling to minimum power pool level, 352,000 ac-ft, Aug. 27 to Sept. 4, 1970, elevation, 839.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,269,000 ac-ft, May 25 and 26, elevation, 881.05 ft; minimum, 765,000 ac-ft, Oct. 3, elevation, 862.36 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	862.40 862.38 862.36 862.42 862.57	864.25 864.34 864.36 864.37 864.39	864.51 864.53 864.56 864.59 864.59	865.47 865.49 865.56 865.56	867.31 867.58 867.75 867.86 867.97	867.87 867.93 867.99 868.07 868.13	870.46 870.45 870.41 870.35 870.33	870.75 870.73 870.66 870.60 870.57	880.01 879.74 879.48 879.29 879.04	872.44 872.26 872.07 871.88 871.77	868.87 868.83 868.73 868.63 868.47	866.23 866.21 866.07 865.93 865.80
6 7 8 9 10	862.56 862.56 862.55 862.78 863.57	864.40 864.41 864.40 864.42 864.41	864.56 864.47 864.47 864.49 864.37	865.59 865.63 865.65 865.65	868.08 868.19 868.30 868.41 868.52	868.22 868.34 868.45 868.51 868.59	870.39 870.45 870.42 870.43	870.48 871.01 873.56 874.89 875.47	878.77 878.48 878.17 877.96 877.75	871.79 871.69 871.50 871.29 871.10	868.40 868.26 868.09 867.94 867.96	865.63 865.63 865.60 865.53
11 12 13 14 15	863.76 863.89 863.98 864.03 864.09	864.41 864.41 864.41 864.41	864.25 864.27 864.17 864.21 864.27	865.69 865.69 865.72 865.71	868.62 868.58 868.56 868.53 868.46	868.65 868.71 868.72 868.77 868.83	870.40 870.37 870.43 870.48 870.40	875.79 877.29 878.43 878.85 879.04	877.47 877.24 877.02 876.71 876.37	870.88 870.70 870.73 870.73	867.93 867.80 867.71 867.73	865.31 865.24 865.23 865.22 865.28
16 17 18 19 20	864.10 864.13 864.14 864.16 864.19	864.42 864.42 864.45 864.44 864.45	864.41 864.57 864.77 864.86 864.97	865.71 865.74 865.79 865.80 865.81	868.44 868.49 868.55 868.55 868.47	868.88 868.93 869.01 869.09 869.10	870.43 870.29 870.23 870.23 870.41	879.32 880.17 880.65 880.93 881.00	876.09 875.77 875.47 875.13 874.77	870.40 870.29 870.28 870.19 870.10	867.56 867.54 867.48 867.36 867.22	865.21 865.19 865.10 865.11 865.11
21 22 23 24 25	864.20 864.23 864.25 864.25 864.24	864.44 864.44 864.49 864.47 864.49	865.08 865.12 865.18 865.22 865.27	865.82 865.84 865.84 865.86 865.84	868.37 868.27 868.30 868.29 868.19	869.11 869.13 869.21 869.33 869.54	870.62 870.68 870.69 870.67	880.89 880.73 880.56 880.86 881.05	874.45 874.11 873.77 873.40 873.20	870.00 869.91 869.83 869.71 869.56	867.09 866.96 866.84 866.87 866.88	865.04 865.06 865.03 865.01 864.99
26 27 28 29 30 31	864.23 864.24 864.24 864.23 864.24 864.25	864.48 864.47 864.47 864.49 864.51	865.33 865.36 865.37 865.40 865.43	865.85 865.86 865.87 865.88 866.22 866.89	868.00 868.01 867.90 	869.73 869.92 870.04 870.17 870.26 870.35	870.69 870.73 870.80 870.79 870.87	881.05 880.96 880.82 880.63 880.45 880.24	873.01 872.83 872.64 872.66 872.65	869.46 869.47 869.48 869.28 869.19 869.07	866.71 866.57 866.47 866.35 866.24 866.23	864.97 864.96 864.95 864.94 864.83
MAX MIN	864.25 862.36	864.51 864.25	865.46 864.17	866.89 865.47	868.62 867.31	870.35 867.87	870.87 870.23	881.05 870.48	880.01 872.64	872.44 869.07	868.87 866.23	866.23 864.83
( - ) ( = )	809000 +43000	815000 +6000	838000 +23000	872000 +34000	897000 +25000	960000 +63000	974000 +14000	1243000 +269000	1021000 -222000	927000 -94000	856000 -71000	822000 -34000

CAL YR 2001....+111000 WTR YR 2002....+ 56000

<sup>(-)</sup> Contents, in acre-feet, at the end of the month.(=) Change in contents, in acre-feet.

#### 06919020 SAC RIVER AT HIGHWAY J BELOW STOCKTON, MO

LOCATION.--Lat  $37^{\circ}44^{\circ}07^{\circ}$ , long  $93^{\circ}46^{\circ}47^{\circ}$ , in NW  $\frac{1}{4}$  sec.4, T.34 N., R.26 W., Cedar County, Hydrologic Unit 10290106, on right bank on downstream side of bridge on State Highway J, 4.5 mi downstream from Bear Creek, 6.3 mi downstream from Stockton Lake, 3.0 mi north of Stockton, and at mile 44.9.

DRAINAGE AREA. -- 1,292 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1973 to current year. Occasional discharge measurements in 1973 water year.

GAGE.--Water-stage recorder. Datum of gage is 750.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Considerable regulation by Stockton Lake (06918990), 6.3 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY NOV JAN FEB AUG 127 102 120 154 1640 994 1480 734 1070 121 1500 1590 ---MEAN MAX MIN 0.09 0.45 1.43 0.43 IN. 0.14 0.17 0.63 0.31 0.90 2.30 3.58 0.97 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002, BY WATER YEAR (WY) MEAN MAX 1974 (WY) 66.7 51.1 60.1 98.8 60.5 71.6 MIN 61.9 64.8 80.4 (WY) SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1974 - 2002 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN Feb 28 May 13 Sep 27-29 Sep 25 1993 LOWEST DAILY MEAN Sep 29 Mar 25 1977 ANNUAL SEVEN-DAY MINIMUM Sep 23 Apr 30 Oct 20 1973 MAXIMUM PEAK FLOW 1 1986 May 13 Oct MAXIMUM PEAK STAGE \_\_\_ 21.19 May 13 24.91 Feb 23 1985 INSTANTANEOUS LOW FLOW Sep 29 2.4 Mar 25 1977 ANNUAL RUNOFF (INCHES) 11.38 6.35 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS

#### 06919500 CEDAR CREEK NEAR PLEASANT VIEW, MO

LOCATION.--Lat  $37^{\circ}50^{\circ}03^{\circ}$ , long  $93^{\circ}52^{\circ}31^{\circ}$ , in NE  $\frac{1}{4}$  sec.2, T.35 N., R.27 W., Cedar County, Hydrologic Unit 10290106, on downstream side of right pier of bridge on State Highway 39, 1.5 mi north of Pleasant View, 1.8 mi downstream from Alder Creek, and 5.8 mi upstream from mouth.

DRAINAGE AREA. -- 420 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1923 to September 1926, October 1948 to current year.

REVISED RECORDS.--WSP 1146: 1923-26, drainage area. WSP 1176: 1924(M).

GAGE.--Water-stage recorder. Datum of gage is 739.46 ft above National Geodetic Vertical Datum of 1929. Apr. 22, 1923, to Sept. 30, 1926 and Oct. 1, 1948, to May 10, 1950, nonrecording gage at site 50 ft downstream at same datum; May 11, 1950, to Dec. 17, 1952, nonrecording gage, at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 27.7 ft, July 20, 1909, from floodmark.

		DISCHAR	GE, CUBIC	C FEET PEF	SECOND, W			BER 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.0 0.98 0.93 1.0 7.3	13 17 19 72 95	16 15 14 15	e38 e36 e34 e33 e32	3600 1210 653 467 349	99 127 214 248 252	103 95 87 81 75	346 275 214 174 148	197 159 131 109 93	42 28 21 20 18	6.6 5.9 5.1 4.3 3.6	1.5 1.4 1.4 1.7
6 7 8 9 10	6.4 65 45 21 980	63 50 40 34 28	15 16 15 15	e31 e30 e29 28 28	289 255 230 206 185	605 845 554 411 340	71 69 73 77 79	129 1340 8470 10600 8400	84 76 68 64 74	13 13 27 21 15	3.1 2.7 2.4 16 32	1.4 1.1 0.98 0.86 0.76
11 12 13 14 15	1420 330 e230 e175 e130	26 24 23 22 20	14 18 21 27 54	28 29 29 29 28	162 147 137 128 122	289 255 228 206 185	77 74 70 71 72	3740 960 5450 4360 1150	142 127 117 148 107	13 13 14 13 78	17 12 8.3 6.7 6.1	0.67 0.61 0.55 0.49 0.46
16 17 18 19 20	88 78 68 58 51	19 17 17 19 18	84 97 149 210 149	27 26 25 26 26	118 113 108 111 142	164 150 142 139 143	72 70 66 62 555	663 2120 4900 2090 772	76 59 52 43 37	69 39 30 27 20	5.1 3.9 3.3 2.9 2.5	0.42 0.38 0.36 0.61 1.7
21 22 23 24 25	45 38 34 30 25	18 17 17 17 17	111 91 77 66 59	26 28 29 30 30	210 179 153 139 129	160 163 141 127 123	2190 1040 508 336 243	567 436 338 1260 2650	32 28 25 22 21	15 13 25 17 12	2.2 2.1 1.9 1.7 1.6	3.1 3.2 2.4 1.6 1.3
26 27 28 29 30 31	22 19 18 16 16	16 15 15 15 16	55 50 47 44 e42 e40	32 34 35 36 66 3050	120 109 102 	146 222 164 139 125 112	196 719 1510 749 450	1050 591 736 440 317 248	19 18 51 98 83	21 33 20 13 9.8 7.6	1.4 1.2 1.1 1.0 1.1 1.3	4.1 4.6 4.1 3.6 3.5
MEAN MAX MIN IN.	130 1420 0.93 0.36	26.6 95 13 0.07	53.4 210 14 0.15	129 3050 25 0.35	353 3600 102 0.87	233 845 99 0.64	331 2190 62 0.88	2095 10600 129 5.75	78.7 197 18 0.21	23.2 78 7.6 0.06	5.36 32 1.0 0.01	1.68 4.6 0.36 0.00
	STICS OF MO				•							
MEAN MAX (WY) MIN (WY)	194 3055 1987 0.00 1954	338 1923 1993 0.00 1954	285 1490 1993 0.06 1954	260 1063 1949 0.12 1954	407 2307 1985 0.14 1954	564 2275 1973 0.23 1954	542 2766 1994 4.09 1956	535 2969 1961 39.1 1988	372 1753 1981 4.52 1991	230 2229 1958 0.03 1954	78.8 641 1950 0.00 1954	172 2033 1993 0.00 1953
SUMMA	RY STATIST	ICS	FOR 2	2001 CALEN	IDAR YEAR		FOR 2002	WATER YEAR		FOR P	ERIOD OF	RECORD
HIGHE LOWES HIGHE LOWES ANNUA MAXIM MAXIM INSTA ANNUA 10 PE 50 PE	L MEAN ST ANNUAL N T ANNUAL N T ANNUAL M T DAILY ME L SEVEN-DA UM PEAK ST NTANEOUS L L RUNOFF (: L RUNOFF (: RCENT EXCEI RCENT EXCEI RCENT EXCEI	EAN EAN AN Y MINIMUM OW AGE OW FLOW INCHES) EDS EDS		8300 0.93 1.0  7.83 492 52 2.1	Feb 25 Oct 3 Sep 28		10600 0.36 0.47 12000 22.65 0.28 9.37 483 40 2.2	May 9 Sep 18 Sep 12 May 9 May 9 Sep 19		330 807 16.0 26200 0.00 0.00 37000 27.36 0.00 10.69 669 72	Man Man Jul Apr	1993 1954 17 1958 y Years y Years 17 1958 12 1994 y Years

e Estimated

# 06919900 SAC RIVER NEAR CAPLINGER MILLS, MO

LOCATION.--Lat  $37^{\circ}52'12"$ , long  $93^{\circ}48'11"$ , in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.21, T.36 N., R.26 W., St. Clair County, Hydrologic Unit 10290106, on right downstream wingwall of bridge on State Highway W, 1.5 mi downstream from Cedar Creek, and 5.0 mi north of Caplinger Mills.

DRAINAGE AREA. -- 1,810 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 720.82 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Some regulation from Stockton Lake (06918990). U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		VATER YE MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	98	129	181	6140	2090	259	1930	5510	1610	1850	159
2	97	135	128	176	2380	1670	244	2780	5290	2750	2250	125
3	95	156	125	169	1330	478	1580	1090	5300	2890	1340	435
4	94	192	124	163	975	513	1220	2900	5120	2720	1340	1440
5	207	258	122	164	777	484	1480	1670	4780	1840	1570	1650
6	308	209	122	171	672	937	1010	1090	5240	1300	1800	1730
7	261	180	760	168	608	1290	207	4050	5070	192	1240	1670
8	254	164	986	167	551	949	335	17400	5090	2640	1580	155
9	185	155	142	166	499	779	1360	17400	5260	2960	2070	127
10	1860	147	612	168	450	677	1040	12300	5150	2920	1350	740
11	2460	142	e900	166	399	577	1040	6490	5030	3000	202	1390
12	1090	139	e800	164	365	517	1730	2100	5220	2830	358	1020
13	680	136	1530	162	2300	889	348	12200	5040	1520	1610	691
14	454	136	1470	160	1450	531	232	9190	5480	199	1300	128
15	358	136	905	158	984	394	1800	2910	5270	1620	396	117
16	291	130	335	154	1610	349	1120	2630	5020	1660	1560	110
17	242	128	1060	153	426	320	1660	5870	4870	1750	175	736
18	215	133	2570	154	272	303	2390	8090	5060	1590	281	939
19	198	142	1940	163	1200	308	1230	4070	5220	2530	1040	1100
20	181	134	587	162	1220	1520	2530	2470	5180	1730	2370	718
21	165	129	402	160	2080	1620	3550	5450	5290	1860	1450	138
22	151	125	921	160	2070	1320	2410	5750	5160	1530	1890	125
23	142	118	330	166	1540	472	2190	5660	5150	1130	1440	109
24	132	129	290	163	318	335	2570	6320	5330	1840	1330	94
25	126	180	265	607	1190	326	1790	4580	5330	1800	167	91
26 27 28 29 30 31	116 109 104 99 98 97	153 134 127 128 132	250 240 228 219 204 191	324 175 168 165 277 5520	2410 1890 373 	363 438 379 333 305 284	2110 2710 3580 1450 2290	2940 5090 5070 5630 5310 5180	3170 2860 2890 1530 330	1840 1330 188 504 1740 1630	352 1820 1410 1410 1450 1190	88 84 85 89 233
MEAN MAX MIN IN.	354 2460 94 0.23	147 258 98 0.09	609 2570 122 0.39	360 5520 153 0.23	1303 6140 272 0.75	702 2090 284 0.45	1582 3580 207 0.98	5665 17400 1090 3.61 YEAR (WY)	4675 5510 330 2.88	1795 3000 188 1.14	1277 2370 167 0.81	544 1730 84 0.34
MEAN	1204	1416	1653	1453	1745	2205	2457	2509	2152	1441	1052	996
MAX	11070	5392	5838	5487	5202	5630	6805	5782	7046	5283	2850	5283
(WY)	1987	1994	1986	1993	1985	1985	1994	1995	1995	1995	1992	1993
MIN	61.1	66.7	56.6	53.5	101	82.7	76.3	278	241	170	77.3	103
(WY)	1981	1981	1981	1981	1981	1981	1981	2001	1991	1988	1991	1991
SUMMARY	STATISTI	CS	FOR 2	001 CALEN	DAR YEAR	F	OR 2002 WA	TER YEAR		WATER YEA	ARS 1975	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			995  12400 79 90 7.46 2370 483 128	Feb 25 Sep 30 Sep 24		1585 17400 84 91 18600 23.90 65 11.89 5080 779 129	May 8,9 Sep 27 Sep 23 May 8 May 8 Sep 30		1689 3267 399 51200 34 47 61500 30.95 33 12.68 4100 965 95	Aug 2 Oct Apr 2 Apr 2	1994 1977 2 1986 25 1999 7 1980 12 1994 12 1994 24 1999	

e Estimated

# 06921070 POMME DE TERRE RIVER NEAR POLK, MO

LOCATION.--Lat  $37^{\circ}40^{\circ}56^{\circ}$ , long  $93^{\circ}22^{\circ}12^{\circ}$ , in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.17, T.34 N., R.22 W., Polk County, Hydrologic Unit 10290107, on right bank 150 ft upstream from Jefferson Bridge on State Highway D, and 5 mi southwest of Polk. DRAINAGE AREA.--276 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- October 1968 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 872.61 ft above National Geodetic Vertical Datum of 1929. REMARKS.--Water-discharge records fair. U.S. Army Corps of Engineers satellite telemeter at station.

	_	DISCHA	RGE, CUBIO	C FEET PER		WATER YE MEAN VA	AR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.8 9.8 9.5 9.3	42 53 79 89 81	50 73 74 67 61	103 99 91 89	2230 803 581 471 402	110 271 455 351 348	262 235 208 183 168	295 246 206 180 159	190 165 146 130 322	22 22 24 23 22	8.3 7.9 7.3 7.0 6.8	13 12 11 9.9 9.4
6 7 8 9 10	32 21 18 27 3570	72 64 58 53 50	55 52 49 46 43	88 85 80 78 79	367 351 319 292 272	418 347 303 313 291	156 150 176 239 219	143 1960 11900 4030 1210	181 141 117 111 117	20 18 16 15 18	6.5 6.5 6.7 6.5 6.3	8.6 16 13 9.8 8.0
11 12 13 14 15	675 463 266 179 140	48 45 43 41 40	41 82 324 260 229	77 72 71 70 65	238 217 199 182 169	251 232 212 196 184	184 163 149 301 276	729 4340 9630 1280 773	97 91 256 138 94	43 21 30 24 18	6.2 6.2 7.8 12 9.2	7.2 6.6 6.4 6.4
16 17 18 19 20	130 114 100 88 80	39 38 37 37 37	e1500 e2600 1070 633 474	62 61 60 64 64	158 146 137 143 193	208 176 163 350 852	200 172 152 145 425	616 5290 2190 890 636	77 66 59 54 49	16 14 13 12	12 11 9.7 24 45	7.1 7.7 7.9 8.3 9.8
21 22 23 24 25	73 68 64 61 59	39 39 38 40 39	393 339 286 244 213	63 68 81 134	197 169 155 146 135	530 404 348 309 1660	1380 567 411 334 274	515 440 376 911 604	44 39 37 33 32	12 12 146 51 24	122 44 28 21 55	9.1 7.9 7.1 6.9 6.3
26 27 28 29 30 31	55 52 49 47 45 43	38 36 35 37 41	191 174 161 147 130 115	138 125 115 108 735 3820	126 116 109 	852 557 460 399 346 299	253 391 396 303 261	420 350 306 280 259 222	36 35 33 29 25	17 13 11 10 9.2 8.5	95 52 32 23 18 15	6.0 5.7 5.7 6.1 5.9
MEAN MAX MIN IN.	213 3570 9.3 0.89	47.6 89 35 0.19	328 2600 41 1.37	226 3820 60 0.94	322 2230 109 1.22	393 1660 110 1.64	291 1380 145 1.18	1658 11900 143 6.93	98.1 322 25 0.40	23.1 146 8.5 0.10	23.2 122 6.2 0.10	8.38 16 5.7 0.03
							BY WATER					
MEAN MAX (WY) MIN (WY)	154 1094 1987 8.88 1979	353 1408 1986 9.94 1990	327 1488 1983 8.94 1990	269 822 1991 10.8 1977	346 1496 1985 42.5 1981	527 1673 1973 43.4 1996	516 1978 1994 26.8 1981	416 1658 2002 23.5 2000	224 1252 1995 15.9 1988	92.5 450 2000 4.16 1980	40.6 154 1985 2.72 1980	153 2348 1993 1.70 1980
SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1969 - 20									- 2002			
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			9160 9.3 10  9.70 362 71 20	Feb 24 Oct 4 Sep 28		18900 20.96	May 8 ep 27,28 Sep 24 May 12 May 13 ep 28,30		284 554 85.6 24300 0.30 0.34 34300 27.10 0.30 13.99 572 86 10	Aug 1 Aug Sep 2 Sep 2	1993 2000 25 1993 10 1980 9 1980 24 1993 24 1993 10 1980	

e Estimated

# 06921070 POMME DE TERRE RIVER NEAR POLK, MO--Continued (Ambient Water-Quality Monitoring Network)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1983 to February 1986, November 1992 to current year.

DATE	TIME	SAMPL TYPE	CH I CH I (C SAMPLE TYPE SE (0		OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 26	1235	ENVIRONM	ENTAL	38	10.3	97	7.9	460	10.9	240	49.7	28.8	2.76
JAN 09	0855	ENVIRONM	ENTAL	78	14.3	104	7.9	332	.5				
MAR 13	1245	ENVIRONM	ENTAL	212	13.8	125	8.4	386	9.4				
MAY 20	1210	ENVIRONM	ENTAL	630	8.7	89	7.9	342	15.4	170	37.9	17.8	2.10
JUL 22	1115	ENVIRONM	ENTAL	12	5.3	69	7.8	405	26.9				
SEP 09	1600	ENVIRONM	ENTAL	9.7	6.7	86	8.1	316	26.4				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 26 JAN	5.87	221	223	272	0	13.8	<.1	9.8	<10	260	<.04	.18	<.05
09 MAR		196	195	237	0				<10		E.02	.15	1.10
13 MAY		168	169	197	5				<10		<.04	.24	.16
JUL	4.14	154	154	188	0	7.23	<.1	7.9	17	186	<.04	.27	.47
22 SEP		192	195	238	0				E12		<.04	.38	<.05
09		136	137	167	0				<10		<.04	.37	.06
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV	. 000	. 05	. 00	. 06	773.0	*****	63	1.0	21	4	. 0.4	. 1	
26 JAN	<.008	<.06	<.02	<.06	K10	K63	63	12	31	. 4	<.04	<.1	<6
09 MAR	<.008	<.06	E.01	<.06	K14	22	29						
13 MAY	<.008	<.06	<.02	<.06	K7	K5	K2						
20 JUL	.084	E.05	<.02	.08	K180	500	420 170	46	182	<.2	<.04	<.1	E4
22 SEP	<.008	E.04	.02	E.05	K78	125							
09	<.008	.06	.05	.06	29	125	64						

# 06921070 POMME DE TERRE RIVER NEAR POLK, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
26	36	E.06	<1	12.1	.01	<.3		4
JAN								
09								
MAR								
13								
MAY								
20	63	.18	M	14.0	<.01	E.2		3
JUL								
22								
SEP								
09								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

## 06921200 LINDLEY CREEK NEAR POLK, MO

LOCATION.--Lat  $37^{\circ}45^{\circ}02^{\circ}$ , long  $93^{\circ}15^{\circ}58^{\circ}$ , in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.29, T.35 N., R.21 W., Polk County, Hydrologic Unit 10290107, on left bank 30 ft upstream from county highway bridge, 0.5 mi downstream from Panther Creek, 2.5 mi northeast of Polk, and 11 mi upstream from Ingalls Creek.

DRAINAGE AREA. -- 112 mi<sup>2</sup>.

PERIOD OF RECORD. -- April 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 884.08 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 25, 1957, nonrecording gage at site 30 ft downstream at same datum.

REMARKS.--Records fair except for discharges below 5 ft<sup>3</sup>/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHA	RGE, CUBIC	FEET PER		VATER YE MEAN VA	CAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.1 1.0 0.96 1.0	10 22 51 29 21	15 e17 15 14 13	33 29 26 24 25	539 259 201 156 134	31 189 143 131 151	83 77 68 61 57	169 113 90 75 63	64 56 51 47 178	14 14 20 26 21	0.51 0.36 0.33 0.23 0.24	1.8 1.0 0.85 0.54 0.38
6 7 8 9 10	58 16 7.4 6.9 2070	19 16 14 12 11	13 12 11 9.9 9.4	26 24 22 24 25	127 129 111 100 88	206 133 111 175 126	53 53 75 73 58	55 1070 4930 1840 390	82 57 48 46 52	17 15 13 12	0.16 0.05 0.00 0.00 0.05	0.30 0.22 0.17 0.13 0.11
11 12 13 14 15	527 423 193 128 94	11 10 9.6 9.2 9.1	9.0 215 175 132 112	22 20 19 19 16	76 73 65 60 56	105 93 82 74 65	51 47 43 47 45	245 4580 5960 430 252	45 45 2820 244 128	12 13 14 16 13	0.20 0.16 0.18 0.28 0.23	0.08 0.05 0.01 0.02 0.09
16 17 18 19 20	122 88 71 57 47	8.7 8.3 8.2 8.8 8.1	624 899 318 209 156	15 14 14 18 18	51 46 42 53 82	81 65 60 265 330	37 35 32 41 122	249 2560 546 270 192	88 66 52 42 34	10 8.6 7.6 6.7	0.54 3.0 3.5 3.3	0.08 0.08 0.05 0.07 0.11
21 22 23 24 25	39 33 29 26 22	7.9 7.6 7.4 11	132 120 101 88 78	18 21 30 45 42	65 50 47 44 39	170 128 116 106 536	247 119 90 76 60	145 117 99 1010 317	29 26 23 21 20	12 8.8 88 36 16	12 9.5 10 10 9.7	0.07 0.02 0.00 0.00 0.00
26 27 28 29 30 31	18 14 14 12 11	9.8 8.7 8.3 9.3 13	72 65 62 55 45 38	36 33 30 28 568 2260	35 30 29 	212 163 136 119 104 93	63 182 183 114 116	184 133 111 107 87 74	25 23 18 17 16	12 7.9 5.4 3.5 1.8 0.92	8.8 7.6 6.0 4.8 3.6 2.7	0.00 0.00 0.00 0.00 0.00
MEAN MAX MIN IN.	135 2070 0.96 1.39	13.0 51 7.4 0.13	124 899 9.0 1.27	114 2260 14 1.18	99.5 539 29 0.93	145 536 31 1.49	80.3 247 32 0.80	854 5960 55 8.79	149 2820 16 1.48	15.2 88 0.92 0.16	3.65 15 0.00 0.04	0.21 1.8 0.00 0.00
MEAN MAX (WY) MIN (WY)	80.6 812 1987 0.00 1977	107 566 1986 0.04 1964	116 526 1983 0.38 1964	97.4 358 1973 0.75 1964	130 764 1985 1.49 1964	191 855 1973 15.9	180 903 1994 4.86 1981	172 854 2002 6.04 2000	81.2 421 1985 0.73 1988	37.0 534 1958 0.08 1980	14.1 100 1958 0.00 1980	53.4 1134 1993 0.00 1960
SUMMA	RY STATISTI	CS	FOR	2001 CAL	ENDAR YEAF	3	FOR 2002	WATER YEA	R	WATER Y	EARS 1957	- 2002
HIGHE LOWES HIGHE LOWES ANNUA MAXIM MAXIM INSTA ANNUA 10 PE 50 PE	L MEAN ST ANNUAL ME T ANNUAL ME ST DAILY MEA L SEVEN-DAY UM PEAK FLO UM PEAK STA NTANEOUS LO L RUNOFF (I RCENT EXCEE RCENT EXCEE	AN AN AN MINIMUM W GGE W FLOW NCHES)		4110 0.37 0.39  10.32 164 26 1.3	Feb 24 Sep 7-9 Sep 3	2 2 1	146 5960 0.00 Aug 8 0.00 24600 21.95 0.00 7.66 196 31 0.29	May ,9,Sep 23 Sep May May Several D	-30 23 13 13	104 247 18.8 12000 0.00 0.00 31900 23.60 0.00 12.68 184 25 0.48	Many Many Oct May	1993 2000 1 1986 Years Years 1 1986 5 1961 Years

e Estimated

#### 06921325 POMME DE TERRE LAKE NEAR HERMITAGE, MO

LOCATION.--Lat 37°54'06", long 93°19'05", in NE  $\frac{1}{4}$  sec.2, T.36 N., R.22 W., Hickory County, Hydrologic Unit 10290107, in intake tower at dam on Pomme de Terre River, 3.0 mi southwest of Hermitage.

DRAINAGE AREA. -- 611 mi<sup>2</sup>.

PERIOD OF RECORD. -- June 1960 to current year.

GAGE.--Water-stage recorder. Nonrecording gage prior to Nov. 9, 1961. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by earthfill embankment with a concrete gravity section-type dam. Closure operation began on June 28, 1960; conservation pool level reached June 15, 1963. Capacity at top of flood control pool, 648,700 ac-ft at elevation 874.0 ft, crest of spillway, of which 407,200 ac-ft between elevations 839.0 ft and 874.0 ft is used for flood control, and 228,700 ac-ft between elevation 783.0 ft and 839.0 ft is used for conservation and 12,840 ac-ft below elevation 783.0 ft is sediment storage. Lake is used for flood control and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 506,000 ac-ft, Sept. 27, 1993, elevation, 864.58 ft; minimum, since initial filling to conservation pool level, 216,000 ac-ft, Mar. 3, 1964, elevation, 835.61 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 430,000 ac-ft, May 18, elevation 858.60 ft; minimum, 233,000 ac-ft, Sept. 30, elevation, 838.47 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	838.82 838.80 838.79 838.75 838.98	839.36 839.17 839.06 839.10	839.28 839.30 839.31 839.32 839.36	841.54 841.43 841.34 841.24 841.15	842.87 843.41 843.64 843.77 843.85	840.78 840.86 841.03 841.15 841.18	842.36 842.19 842.09 841.99 841.88	842.49 842.48 842.41 842.32 842.22	853.32 852.74 852.16 851.57 851.08	840.13 840.10 840.16 840.14 840.12	839.90 839.86 839.82 839.79 839.76	839.09 839.07 839.04 839.02 839.00
6 7 8 9 10	839.05 839.05 839.03 839.02 839.50	839.14 839.16 839.16 839.18 839.18	839.36 839.37 839.38 839.39	841.06 840.96 840.86 840.76 840.65	843.91 843.96 843.99 843.92 843.79	841.31 841.40 841.48 841.54 841.58	841.75 841.61 841.53 841.44 841.35	842.11 842.08 846.64 850.54 851.39	850.53 849.92 849.31 848.67 848.07	840.09 840.07 840.04 840.01 839.97	839.76 839.61 839.56 839.37 839.36	838.97 838.95 838.92 838.89 838.87
11	841.14	839.18	839.39	840.56	843.66	841.59	841.30	851.28	847.46	839.96	839.32	838.84
12	841.75	839.18	839.46	840.46	843.52	841.58	841.22	851.00	846.83	839.93	839.30	838.81
13	841.92	839.18	839.64	840.35	843.38	841.57	841.16	855.82	846.91	840.00	839.29	838.78
14	841.94	839.17	839.79	840.27	843.23	841.58	841.10	857.24	846.93	839.97	839.31	838.76
15	841.87	839.18	839.87	840.15	843.06	841.50	841.08	857.14	846.33	839.94	839.28	838.75
16	841.89	839.18	839.98	840.06	842.89	841.46	841.09	856.86	845.69	839.91	839.26	838.73
17	841.83	839.18	840.82	839.93	842.72	841.42	841.06	857.01	845.05	839.88	839.22	838.72
18	841.71	839.18	841.71	839.83	842.54	841.37	841.09	858.60	844.37	839.85	839.21	838.70
19	841.68	839.22	841.97	839.74	842.37	841.35	841.01	858.52	843.69	839.82	839.18	838.66
20	841.61	839.20	842.08	839.63	842.27	841.55	841.38	858.21	842.99	839.79	839.17	838.74
21	841.53	839.21	842.13	839.54	842.13	841.77	841.90	857.79	842.30	839.76	839.17	838.72
22	841.44	839.19	842.16	839.42	841.98	841.86	842.27	857.36	841.81	839.73	839.16	838.69
23	841.24	839.17	842.14	839.37	841.82	841.89	842.31	856.87	841.31	840.09	839.19	838.66
24	841.01	839.27	842.10	839.35	841.65	841.91	842.27	856.58	840.83	840.14	839.22	838.63
25	840.80	839.25	842.06	839.33	841.47	841.95	842.20	856.76	840.57	840.13	839.21	838.60
26 27 28 29 30 31	840.53 840.29 840.05 839.81 839.61 839.45	839.25 839.26 839.24 839.24 839.28	842.00 841.93 841.87 841.78 841.71 841.63	839.30 839.30 839.26 839.28 839.34 840.90	841.31 841.09 840.88 	842.50 842.68 842.76 842.71 842.62 842.50	842.13 842.11 842.35 842.38 842.33	856.38 855.93 855.43 854.93 854.41 853.87	840.36 840.25 840.18 840.19 840.17	840.10 840.09 840.04 840.01 839.97 839.93	839.19 839.19 839.18 839.16 839.13 839.11	838.57 838.55 838.52 838.50 838.47
MAX	841.94	839.36	842.16	841.54	843.99	842.76	842.38	858.60	853.32	840.16	839.90	839.09
MIN	838.75	839.06	839.28	839.26	840.88	840.78	841.01	842.08	840.17	839.73	839.11	838.47
( - )	241000	240000	259000	253000	252000	266000	264000	376000	247000	245000	238000	233000
( = )	+5000	-1000	+19000	-6000	-1000	+14000	-2000	+112000	-129000	-2000	-7000	-5000

CAL YR 2001....+21000 WTR YR 2002....- 3000

<sup>(-)</sup> Contents, in acre-feet, at the end of the month.(=) Change in contents, in acre-feet.

## 06921350 POMME DE TERRE RIVER NEAR HERMITAGE, MO

LOCATION.--Lat  $37^{\circ}54^{\circ}20^{\circ}$ , long  $93^{\circ}19^{\circ}45^{\circ}$ , in NW  $\frac{1}{4}$  sec.2, T.36 N., R.22 W., Hickory County, Hydrologic Unit 10290107, on right bank 2,000 ft downstream from outlet of Pomme de Terre Lake, 2.5 mi southwest of Hermitage, 4.5 mi upstream from Green Branch, and at mile 43.4.

DRAINAGE AREA. -- 615 mi<sup>2</sup>.

PERIOD OF RECORD. -- August 1960 to current year.

GAGE.-- Water-stage recorder. Datum of gage is 749.33 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Pomme de Terre Lake (06921325), 0.5 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	43 43 52 4.4 5.3	949 729 51 50 50	52 52 52 52 52	484 484 483 481 481	423 420 421 420 420	375 291 290 387 485	999 842 715 715 715	752 753 752 754 755	3170 3160 3150 3140 3140	100 102 102 101 100	102 102 102 102 102	44 44 44 44
6 7 8 9 10	4.3 4.0 3.7 13	50 50 51 51 51	52 52 52 52 52	481 480 478 478 478	420 420 680 919 919	487 486 486 489 487	715 715 716 717 572	758 844 822 1700 2460	3130 3110 3100 3090 3080	100 100 100 101 102	348 100 100 583 44	44 44 44 44
11 12 13 14 15	7.2 191 498 496 390	51 51 51 51 52	52 67 168 252 252	478 478 478 478 478	919 919 919 918 917	487 487 487 487 487	490 492 493 494 389	2450 2460 2500 2500 2490	3070 3070 3100 3070 3060	101 104 102 101 100	43 44 44 44 43	44 44 44 45 45
16 17 18 19 20	493 491 490 490 490	52 52 52 53 53	252 385 484 486 484	477 476 475 475 475	916 915 915 915 915	487 487 487 489 490	296 299 301 308 336	2480 2500 2660 3030 3250	3050 3040 3020 3020 3000	100 100 100 100 100	43 44 44 44	45 45 45 46 45
21 22 23 24 25	490 736 1000 1000	52 52 52 52 52	484 485 486 485 484	475 357 247 248 248	915 913 912 911 912	492 491 490 491 493	312 542 744 745 744	3300 3280 3270 3290 3260	2410 2050 1960 1330 1060	100 102 109 102 102	44 44 44 44	45 45 45 45 45
26 27 28 29 30 31	998 994 991 943 645 419	52 52 52 52 52 	484 484 484 484 484	247 247 157 82 92 206	914 911 752 	496 496 763 999 999	746 763 752 750 750	3250 3230 3220 3210 3200 3180	650 286 205 101 100	102 102 102 102 102 102	44 44 44 44 44	45 45 45 45 45
MEAN MAX MIN IN.	434 1000 3.7 0.81 STICS OF MC	104 949 50 0.19	282 486 52 0.53	393 484 82 0.74	778 919 420 1.32	527 999 290 0.99	606 999 296 1.10	2334 3300 752 4.38	2397 3170 100 4.35	101 109 100 0.19	84.1 583 43 0.16	44.6 46 44 0.08
MEAN MAX (WY) MIN (WY)	328 3116 1994 13.1 1969	547 2872 1987 7.50 1977	624 2886 1986 20.5 1963	503 2042 1993 20.4 1962	578 2100 1975 21.5 1963	869 3487 1985 24.6 1963	849 2948 1984 26.8 1963	907 4799 1961 26.4 1963	641 2397 2002 31.9 1969	356 2349 1995 26.0 1970	119 480 1978 18.6 1961	132 1110 1993 1.27 1960
SUMMAR	RY STATISTI	ICS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002	WATER YEA	AR.	WATER YE	ARS 1960	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAM ANNUAL 10 PER 50 PER	L MEAN ST ANNUAL ME T ANNUAL ME T DAILY ME T DAILY ME L SEVEN-DAY M PEAK SIZ WITANEOUS LC RUNOFF (I RECENT EXCER RCENT EXCER RCENT EXCER	EAN EAN AN MINIMUM AGE DW FLOW INCHES) EDS		1980 3.7 7.7  9.37 108 41	Feb: Oct Oct	8	3300 3.7 7.7 3430 9.00 3.5 14.83 2500 475 44	May 2 Oct Oct May 2 May 2 Oct	8 4 24 24	538 1163 67.8 9000 0.00 0.00 9000 15.02 0.00 11.88 1940 44	Several At May	Times 9 1961 9 1961

## 06921582 SOUTH GRAND RIVER BELOW FREEMAN, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°35'20", long 94°26'30", in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.27, T.44N., R.32 W., Cass County, Hydrologic Unit 10290108, access is on the left bank on upstream side of bridge on gravel road, approximately 2 mi south of State Highway 2, approximately 6.1 mi southwest of Harrisonville, and 4 mi southeast of Freeman.

DRAINAGE AREA.--150 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1997 to current year. October 1998 to September 2000 published as South Grand River at Grand River Church (06921881).

DATE	TIME	SAMPLI TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 17	1345	ENVIRONM	ENTAL	46	9.1	84	8.1	810	10.5				
NOV 13	1100	ENVIRONM	ENTAL	3.7	6.0	56	7.9	723	11.0	290	95.0	12.8	6.06
DEC 18	1135	ENVIRONM	ENTAL	4.9	10.3	84	8.2	835	5.5				
JAN 23 23	1210 1245	ENVIRONM BLANK	ENTAL	3.8	14.7	116 	8.3	659 	4.0	250 	81.0 .04	11.2	5.19 <.10
FEB 20	1155	ENVIRONM	ENTAL	125	9.4	84	8.3	460	9.0				
MAR 04	1220	ENVIRONM	ENTAL	22	14.5	105	8.3	526	1.0				
APR 23	1200	ENVIRONM	ENTAL	120	7.6	80	8.1	413	16.5				
MAY 15	1135	ENVIRONM	ENTAL	239	9.3	100	8.1	436	17.5	200	68.5	7.15	3.38
JUN 11	1135	ENVIRONM	ENTAL	19	6.8	85	8.1	543	24.5				
JUL 10	1155	ENVIRONM	ENTAL	1.6	6.0	83	8.1	734	30.5	250	82.6	11.5	4.10
AUG 13 SEP	1240	ENVIRONM	ENTAL	8.2	5.2	64	8.2	785	24.0				
25	1230	ENVIRONM	ENTAL	.62	7.6	85	8.0	1080	19.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 17 NOV	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 17 NOV 13 DEC	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  196 257	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .71	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .60 E.03
OCT 17 NOV 13 DEC 18 JAN 23	DIS- SOLVED (mg/L as Na) (00930)  41.5	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  196 257 234 200	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  196 259 234 199	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 239 316 286 243	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  24.1  33.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  102 94.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  61 16 20 12	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .71 .59 .43	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .60 E.03 .72
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04	DIS- SOLVED (mg/L as Na) (00930)  41.5  45.5 <.09	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 196 257 234 200	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 196 259 234 199	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 239 316 286 243	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  24.1  33.5 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .3 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 102 94.7 <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  61 16 20 12 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .71 .59 .43 .51 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .60 E.03 .72 1.79 <.05
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23	DIS- SOLVED (mg/L as Na) (00930)  41.5  45.5 <.09	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  196 257 234 200 177	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 196 259 234 199 	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 239 316 286 243 	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  24.1  33.5 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  102 94.7 <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  61 16 20 12 <10 82	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .71 .59 .43 .51 <.10 .93	GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)  .60 E.03 .72 1.79 <.05
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23	DIS- SOLVED (mg/L as Na) (00930)  41.5  45.5 <.09	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  196 257 234 200 177 209	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  196 259 234 199 177 210	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 239 316 286 243  216 257	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  24.1  33.5 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .3 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 102 94.7 <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  61 16 20 12 <10 82 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  460  408 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .71 .59 .43 .51 <.10 .93	GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)  .60 E.03 .72 1.79 <.05 .43 .61
OCT 17 NOV 13 DEC 18 JAN 23 FEB 20 MAR 04 APR 23 MAY 15 JUN 11	DIS- SOLVED (mg/L as Na) (00930)  41.5  45.5 <.09	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  196 257 234 200 177 209 162	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 196 259 234 199  177 210	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  239 316 286 243 216 257	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  24.1  33.5 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .3 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 102 94.7 <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  61 16 20 12 <10 82 <10 160	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  460  408 <10 	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.08	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .71 .59 .43 .51 <.10 .93 .33	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .60 E.03 .72 1.79 <.05 .43 .61
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23 MAY 15 JUN 11 JUL 10	DIS- SOLVED (mg/L as Na) (00930)  41.5  45.5 <.09  	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  196 257 234 200 177 209 162 177	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 196 259 234 199  177 210 164 174	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  239 316 286 243 216 257 200 213	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  24.1  33.5 <.30   8.26	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .3 <.1  	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  102 94.7 <.1 34.8	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  61 16 20 12 <10 82 <10 160 108	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  460  408 <10  275	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .71 .59 .43 .51 <.10 .93 .33 1.3 .82	GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)  .60 E.03 .72 1.79 <.05 .43 .61 .70 .85
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23 MAY 15 JUN 11	DIS- SOLVED (mg/L as Na) (00930)  41.5  45.5 <.09   10.8	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  196 257 234 200 177 209 162 177 218	WATER UNFLITED TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  196 259 234 199 177 210 164 174 220	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 239 316 286 243  216 257 200 213 269	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  24.1  33.5 <.30   8.26	RIDE, DIS- SOLVED (mg/L as F) (00950)  .3  .3 <.1   .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 102 94.7 <.1 34.8	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  61 16 20 12 <10 82 <10 160 108 40	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  460 408 <10 275	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .71 .59 .43 .51 <.10 .93 .33 1.3 .82 .45	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .60 E.03 .72 1.79 <.05 .43 .61 .70 .85

# 06921582 SOUTH GRAND RIVER BELOW FREEMAN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 17	.008	.11	.11	.23	K450	1400	1600						
NOV 13	<.008	.07	.06	.15	23	50	100	3	463	1.9	E.02	<.1	<6
DEC 18	E.007	.08	.04	.11	120	82	230						
JAN 23	.010	.15	.14	.21	K12	K11	98	5	199	1.7	.05	<.1	<6
23 FEB	<.008	<.06	<.02	<.06				4	4	<.2	<.04	<.1	<6
20 MAR	.009	.07	.04	.19	720	320	810						
04 APR	E.005	E.04	.03	.08	K3	K2	27						
23 MAY	.028	.08	.06	.24	850	K2400	K2800						
15 JUN	.032	E.04	.02	.20	1000	470	800	2	1300	1.3	<.04	E.1	<6
11 JUL	.009	E.04	.04	.10	K11	93	160						
10 AUG	<.008	E.05	.04	.11	K60	42	100	2	430	2.4	.04	E.1	<6
13 SEP	<.008	.07	.05	.16	1400	620	2000						
25	E.004	E.05	.03	.09	K20	67	130						
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
DATE  OCT 17	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L)	ZINE, WATER, DISS, REC (µg/L)
OCT	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 13 DEC	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)  <1  4	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660) <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 13 DEC 18 JAN	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- REABLE (µg/L as Pb) (01051)  M	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 3	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660) <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 13 DEC 18 JAN 23	DIS- SOLVED (µg/L as Fe) (01046)  E5  24	DIS- SOLVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  371  37.4	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.2	DIS- SOLVED (µg/L as Zn) (01090)  <1  4	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253) <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20	DIS- SOLVED (µg/L as Fe) (01046)  E5  24	DIS- SOLVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- REABLE (µg/L as Pb) (01051)  M <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  371  37.4	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.2  .6 <.3	DIS- SOLVED (µg/L as Zn) (01090)  <1  4	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 	BHC DIS- SOLVED (µg/L) (34253) <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR	DIS- SOLVED (µg/L as Fe) (01046)  E5  24 <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- REABLE (µg/L as Pb) (01051)  M <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  371  37.4 <2.0	TOTAL RECOV- REABLE (μg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.2  .6 <.3	DIS- SOLVED (µg/L as Zn) (01090)  <1  4	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 4 3	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004  	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002	BHC DIS- SOLVED (µg/L) (34253)  <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23	DIS- SOLVED (µg/L as Fe) (01046)  E5  24 <10 	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.07 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  371  37.4 <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.2  .6 <.3	DIS- SOLVED (µg/L as Zn) (01090)  <1  4 2	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 4 3	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006	CHLOR, WATER FLTRD FLTRD REC (µg/L) (49260)  <.004 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005  <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .024   .021
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23 MAY 15 JUN	DIS- SOLVED (µg/L as Fe) (01046)  E5  24 <10 	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.07 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  371  37.4 <2.0	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.2  .6 <.3	DIS- SOLVED (µg/L as Zn) (01090)  <1  4 2  	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 4 3	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 <.010	BHC DIS- SOLVED (µg/L) (34253) <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .024   .021 1.69
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23 MAY 15 JUN 11 JUN 11	DIS- SOLVED (µg/L as Fe) (01046)  E5  24 <10 	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.07 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  371 37.4 <22.0 79.9	TOTAL RECOV- REABLE (μg/L as Hg) (71900)  <.01 <.01 E.01	NIUM, DIS- SOLVED (μg/L as Se) (01145)  E.2  .6 <.3  	DIS- SOLVED (µg/L as Zn) (01090)  <1  4 2  	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 4 3	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004 <.006 .701	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 <.010	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .024   .021 1.69 .542
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23 MAY 15 JUN 11 JUL	DIS- SOLVED (µg/L as Fe) (01046)  E5 24 <10 E8	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.07 <.08   E.04	TOTAL RECOV- RERABLE (µg/L as Pb) (01051)  M <1 2	NESE, DIS- SOLVED (µg/L as Mn) (01056)  371  37.4 <2.0   79.9	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.01 E.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  E.2  .6 <.3   1.3	DIS- SOLVED (µg/L as Zn) (01090)  <1  4 2   <1	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 4 3 9	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006 <.006	CHLOR, WATER FLTRD FLTRD REC (µg/L) (49260)  <.004 <.006 .701 .074	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 <.010 .008	BHC DIS- SOLVED (µg/L) (34253)  <.005  <.005  <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 024021 1.69 .542

# 06921582 SOUTH GRAND RIVER BELOW FREEMAN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)
OCT 17													
NOV 13	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.010	<.005	<.005	<.02	<.002	<.009
DEC 18	~.010		~.U41					E.010		·.003			
JAN 23													
23 23 FEB													
20 MAR													
04 APR	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.009	<.005	<.005	<.02	<.002	<.009
23	<.010	<.002	E.021	<.020	<.005	<.018	.019	E.085	.057	<.005	<.02	<.002	<.009
MAY 15	<.010	<.002	E.004	<.020	<.005	<.018	<.003	E.059	.015	<.005	<.02	<.002	<.009
JUN 11	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.039	<.005	<.005	<.02	<.002	<.009
JUL 10	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.037	E.003	<.005	<.02	<.002	<.009
AUG 13 SEP													
25													
DATE	ETHO- PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
OCT	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L)
OCT 17 NOV	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)
ОСТ 17	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)
OCT 17 NOV 13 DEC 18 JAN	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 17 NOV 13 DEC 18	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341)  <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666) <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671) <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 17 NOV 13 DEC 18 JAN 23 23 FBB 20	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <.005	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050	PARA- THION WAT FLIT 0.7 µ GF, REC (µg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532) <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003  	THION, DIS- SOLVED (µg/L) (39542)  <.007 
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095)  <.003	DIS- SOLVED (µg/L) (39341)  <.004  	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <.005 <.005	WATER DISS REC (µg/L) (04095) <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004    <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050  <.050	PARA- THION WAT FLIT 0.7 µ GF, REC (µg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 E.005	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006    <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002	MMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007    <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010
OCT 17 NOV 13 DEC 18 JAN 23 FEB 20 MAR 04 APR 23	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672) <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095) <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050  <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006   <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 E.005	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002  <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542) <.007 <.010 <.010
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23 MAY 15 JUN 11	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050  <.050 <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006   <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 E.005 .015	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.010
OCT 17 NOV 13 DEC 18 JAN 23 23 FEB 20 MAR 04 APR 23 MAY 15 JUN 11 JUL	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004   <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLIT 0.7 µ GF, REC (µg/L) (82667)  <.006   <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 E.005 .015 .019	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006    <.006 <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.010 <.010

# 06921582 SOUTH GRAND RIVER BELOW FREEMAN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
OCT													
17													
NOV													
13 DEC	<.002	<.010	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02
18													
JAN													
23													
23													
FEB													
20													
MAR													
04	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.05	<.034	<.02
APR													
23	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
MAY	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	.031	<.02	<.034	<.02
15 JUN	<.004	<.022	<.000	<.011	E.UI	<.004	<.010	<.011	<.∪∠	.031	<.02	<.034	<.∪∠
11	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.025	<.02	<.034	<.02
JUL	1.001	1.022	<.000	V.011	\.U±	V.004	√.010	V.011	1.02	.025	1.02	V.034	1.02
10	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	.006	<.02	<.034	<.02
AUG													
13													
SEP													
25													

DATE	THIO- BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	(µg/L)
OCT			
17			
NOV 13	<.005	<.002	<.009
DEC	<.005	<.002	<.009
18			
JAN			
23			
23			
FEB 20			
MAR			
04	<.005	<.002	<.009
APR			
23	<.005	<.002	<.009
MAY 15	<.005	<.002	<.009
JUN	<.005	<.002	<.009
11	<.005	<.002	<.009
JUL			
10	<.005	<.002	<.009
AUG			
13 SEP			
25			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 06921760 SOUTH GRAND RIVER NEAR CLINTON, MO

LOCATION.--Lat  $38^{\circ}22'16"$ , long  $93^{\circ}51'23"$ , in NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.1, T.41 N., R.27 W., Henry County, Hydrologic Unit 10290108, at right upstream end of bridge on State Highway 18, 4.4 mi west of Clinton, and 5.4 mi downstream from Big Creek.

DRAINAGE AREA.--1,270 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder 3.3 mi upstream from base gage at same datum.

REMARKS.--Discharge is calculated using fall computations due to backwater from Harry S. Truman Reservoir. Records poor. U.S. Army Corps of Engineers satellite telemeter at base and auxiliary gage.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 28,400  ${\rm ft}^3/{\rm s}$ , May 10; minimum 13  ${\rm ft}^3/{\rm s}$ , Sept. 24.

		DISCHARGE	, CUBIC	FEET PER		WATER YEAR Y MEAN VALU		2 2001 TC	) SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	77 73 73 72 422	50 46 49 50 48	30 31 32 33 38	46 42 40 36 34	950 1780 1150 847 650	159 151 151 151 141	85 70 61 58 53	1260 859 626 465 361	e1130 e920 e760 e760 e1400	105 101 102 104 101	40 38 39 40 40	23 22 21 22 21
6 7 8 9 10	2930 1840 774 490 378	45 41 37 31 36	36 40 37 42 42	38 40 44 40 39	489 390 307 257 200	146 171 203 209 220	59 69 69 72 93	300 1410 7300 20800 28400	e2150 e1510 e891 e676 e529	105 111 107 98 95	40 41 40 39 e36	19 18 17 17 15
11 12 13 14 15	444 356 253 199 194	36 36 36 35 34	40 40 38 46 60	38 37 49 46 46	184 144 129 114 113	224 209 190 182 166	122 144 500 446 280	21300 14000 e8510 e6270 e4180	e408 656 2270 2970 1750	85 88 126 168 135	e35 e34 e34 e32 e32	15 14 14 15 16
16 17 18 19 20	313 605 538 376 268	34 32 34 33 26	65 69 73 70 74	48 45 44 42 45	110 120 114 122 218	154 142 132 128 121	209 161 135 122 139	e2360 e3220 e4930 e3380 e2150	1210 917 750 607 498	115 97 87 78 74	e30 30 29 30 28	16 16 14 18 16
21 22 23 24 25	213 170 143 113 92	33 34 33 34 29	90 80 68 58 64	42 46 57 75 73	551 614 465 360 279	112 104 99 95 97	283 1100 1110 696 478	e1400 e1130 e973 e1190 e4180	418 348 303 263 230	95 106 85 73 65	33 37 35 37 31	e15 e15 e14 e13
26 27 28 29 30 31	82 65 69 63 56 54	34 27 27 29 30	63 58 58 56 52 50	61 50 52 54 71 764	224 198 174 	90 88 83 80 79 80	356 621 3360 4440 2420	e6530 e7820 e4230 e3060 e1780 e1240	191 151 132 107 112	56 49 43 43 42 42	25 21 21 21 22 23	15 14 14 16 17
MEAN MAX MIN IN.	380 2930 54 0.35	50 26	52.7 90 30 0.05	70.4 764 34 0.06	402 1780 110 0.33	140 224 79 0.13	594 4440 53 0.52	5342 28400 300 4.85	834 2970 107 0.73	89.7 168 42 0.08	32.7 41 21 0.03	16.6 23 13 0.01

e Estimated

#### 06922440 HARRY S. TRUMAN RESERVOIR AT WARSAW, MO

LOCATION.-- Lat 38°15'30", long 93°23'40", in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.7, T.40 N., R.22 W., Benton County, Hydrologic Unit 10290105, in control room near middle of dam on Osage River, 1.5 mi northwest of Warsaw, and at mile 175.

DRAINAGE AREA.--11,500  $\mathrm{mi}^2$ , with 7,856  $\mathrm{mi}^2$  uncontrolled area below other reservoirs.

PERIOD OF RECORD.--October 1981 to current year. Records collected at same site since 1977 available from U.S. Army Corps of

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rolled earthfill type dam. Storage began on July 21, 1977. Spillway is equipped with 4 tainter gates 40 ft wide by 47.3 ft high. Capacity of surcharge pool 2,911,000 ac-ft (elevation 739.6 ft to 751.1 ft); of flood control pool 4,006,000 ac-ft (elevation 706.0 ft to 739.6 ft); and of multipurpose pool 1,203,000 ac-ft (elevation 635.0 ft to 706.0). Lake is used for flood control, power, recreation, and fish and wildlife enhancement. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,020,000 ac-ft, Oct. 11, 12, 1986, elevation, 738.69 ft, Oct. 11, 1986; minimum, 41,700 ac-ft, Nov. 14, 1978, elevation, 661.0 ft.

EXTREMES FOR CURRENT YEAR. -- Maximum contents, 2,740,000 ac-ft, May 18, elevation, 724.41 ft; minimum, 1,130,000 ac-ft, Sept. 10, elevation, 704.99 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 2400 DAY OCT NOV DEC TAN FEB MAR APR MAY JITIN TTTT. ATTG SEP 705.60 706.46 705.83 706.24 706.55 708.63 707.01 705.58 709.04 721.30 707.76 705.78 2 706.47 705.94 706.31 706.47 708.92 707.23 705.52 708.86 720.96 707.78 705.77 705.58 706.49 706.00 706.38 706.36 708.93 707.27 705.45 708.55 720.50 707.08 705.82 705.32 708.66 706.67 706.02 706.42 706.32 707.19 705.41 708.15 719.91 707 04 705.84 705 18 5 707.16 705.93 706.46 706.34 708.41 707.12 705.47 707.71 719.18 707.12 705.83 705.02 708.12 6 707 46 705.89 706 51 706.38 707 10 705 52 707 28 718 31 707 17 705 88 705 03 707.65 705.85 706.58 706.33 707.77 707.24 705.55 708.82 717.45 707.13 705.88 705.08 8 707.51 705.80 706.64 706.27 707.46 707.38 705.61 711.90 716.56 706.92 705.92 705.08 705.66 707 41 705.81 706.68 706.30 707.40 707.39 714 50 716 06 706.71 705 98 705 02 10 705.82 706.34 707.44 705.72 716.53 715.63 704.99 708.40 706.52 707.15 707.20 706.02 11 708 46 705 81 706 40 706 39 706 90 707.48 705 79 717 82 715 26 707 18 706 00 705 03 706.42 718.94 715.32 12 708.25 705.83 706.38 706.87 707.37 705.86 707.27 705.98 705.04 707.38 715.77 707.41 13 708.35 705.84 706.41 706.47 706.85 705.95 720.48 706.02 705.06 14 708 40 705.86 706 55 706 53 707.00 707 37 706 00 721 75 715 62 707.39 706 03 705 12 706.56 15 708.13 705.87 706.63 707.07 707.44 706.09 722.64 715.51 707 25 705.98 705.12 16 707 60 705 88 706 73 706 62 707 13 707 48 706 12 723 30 715 29 707 12 706 02 705 11 707.35 705.89 706.80 706.60 707.20 707.48 705.92 723.97 714.89 706.93 706.01 705.13 17 707.26 705.98 706.98 706.51 707.22 707.48 705.98 724.41 714.34 706.73 706.00 705.17 19 707 15 705.97 706 90 706 56 707 29 707 40 706 18 724 38 713 78 706 56 706 02 705 30 20 707.16 705.98 706.87 706.61 707.28 707.10 706.64 724.03 713.17 706.52 706.02 705.28 707 19 707 36 706 90 707 21 705 27 21 705.98 706 88 706 63 723 50 712 54 706 44 705 96 22 707.04 711.89 705.98 706.95 706.60 707.42 706.67 707.45 722.88 706.23 705.76 705.26 705.24 23 706.79 705.98 707.01 706.64 707.57 706.58 707.68 722.22 711.22 706.25 705.49 707 03 24 706 49 706 16 706 62 707 64 706 39 707 68 722 38 710 60 706 22 705 53 705 20 25 706.21 706.06 707.06 706.52 706.33 709.88 706.11 705.20 705.91 707.40 707.26 705.91 26 706.15 706.93 706.49 706.22 722.09 709.13 705.45 705.20 705.90 706.53 707.21 705.93 27 706.10 706.86 706.07 708.14 721.97 708.53 705.49 705.20 706.11 28 705.92 706.87 706.55 706.98 705.97 708.85 721.80 707.94 705.93 705.53 705.19 707.96 29 705.81 706.17 706.84 706.59 ---705.88 709.18 721.70 705.90 705.55 705.18 30 705.81 706.22 706.76 706.82 705.77 709.13 721.64 707.88 705.91 705.58 705.17 31 705.81 706.64 708.12 705.68 721.50 705.86 705.61 721.30 708.46 706.22 707.06 708.12 708.93 707.48 709.18 724.41 707.78 706.03 705.60 MAX MTN 705.81 705.80 706.24 706.27 706.85 705.68 705.41 707.28 707.88 705.86 705.45 704.99 1170000 1190000 1220000 1310000 1180000 1160000 1370000 2420000 1290000 1170000 1160000 1140000

-20000 +210000 +1050000 -1130000

-120000

-20000

-10000

CAL YR 2001....+116000 WTR YR 2002....- 60000

-30000

( = )

+30000

+90000

-130000

+20000

<sup>(-)</sup> Contents, in acre-feet, at the end of the month.(=) Change in contents, in acre-feet.

#### 06922450 OSAGE RIVER BELOW HARRY S. TRUMAN DAM AT WARSAW, MO

LOCATION.--Lat 38°15'41", long 93°24'16", NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.17, T.40 N., R.22 W., Benton County, Hydrologic Unit 10290109, on right bank 2,000 ft below Harry S Truman Dam, 1.5 mi northwest of Warsaw.

DRAINAGE AREA.--11,500  $\mathrm{mi}^2$ , with 7,856  $\mathrm{mi}^2$  uncontrolled area below other reservoirs.

PERIOD OF RECORD. -- May 1978 to current year.

GAGE.--Acoustic flow monitor. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers).

REMARKS.--Records not published prior to 1982 water year due to test period of acoustic flow monitor which included periods of unreliable record. Flow completely regulated by Harry S. Truman Dam (06922440), 2,000 ft upstream. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

COOPERATION. -- Records were provided by the U.S. Army Corps of Engineers.

		DISCHA	RGE, CUB	IC FEEL P.		MEAN VA		ER 2001 10	SELIEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0 0 0 0 1010	100 0 0 0 3390	0 0 0 0	2540 3680 3650 2170	7540 7490 9750 14200 12600	3990 0 0 4680 5270	3350 3680 2800 2800 1570	20600 17200 17500 17400 17900	41300 41600 41800 42200 45700	4470 3330 3550 4790 500	3370 2300 500 500 1620	300 300 6620 4340 5490
6 7 8 9 10	0 0 6930 2790 0	0	5750	0 2920 2190 0 0	12800 13700 12400 6850 8270	4730 0 1360 4380 1800	833 833 1640 833 729	18300 0 0 0 0	52500 51900 51800 39800 34000	500 1870 7860 9100 8940	500 500 500 500 500	1040 300 300 1650 288
11 12 13 14 15	7250 13000 0 0 11900	0 0 0 0	5070 4890 717 0	0 0 0 0	9650 3280 3780 0 1010	2690 6500 1090 4330 0	680 680 680 680 550	6430 10400 0 181 300	31900 27000 26000 29800 30000	4480 4160 500 1410 5150	500 500 1240 500 1780	200 225 133 200 200
16 17 18 19 20	17700 8760 4520 5300 988	0 0 0 0	0 0 0 6120 2170	0 2050 3560 0	2030 0 1990 2020 4150	0 2980 2140 4790 10300	3810 8110 2030 383 383	7200 12900 12800 26100 37100	30400 34100 34600 33500 32700	6630 7720 8100 7750 4040	500 500 500 383 1500	133 200 83 0 83
21 22 23 24 25	667 6890 7570 9920 8470	0 0 0 0	1450 0 0 0 0	0 2490 0 2140 3180	2650 3300 0 2420 6950	8730 7590 4640 6060 4420	383 2120 3570 10100 9460	46900 51600 52300 36400 36300	32800 31600 31900 29000 30000	4400 8750 1110 3090 4650	3900 6610 9380 300 300	200 200 200 146 100
26 27 28 29 30 31	8670 617 647 4300 729 721	0 0 0 0 0	2550 2930 0 2420 2880 4370	1760 0 0 0 4220 3420	7200 9650 8300  	4130 5200 4350 4800 4190 4080	13600 8560 8460 11700 24900	43600 44900 45100 41800 40200 41000	28000 21500 21600 2330 2800	7420 500 500 500 1650 2580	300 300 300 300	33 0 0 0 67
MEAN MAX MIN	4173 17700 0	261 3390 0	1333 6120 0	1289 4220 0	6214 14200 0	3846 10300 0	4330 24900 383	22660 52300 0	32800 52500 2330	4194 9100 500	1375 9380 300	768 6620 0
STATIS	TICS OF M	ONTHLY ME	AN DATA	FOR WATER	YEARS 1982	- 2002 <sup>a</sup>	, BY WAT	ER YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	9333 52090 1987 0.00 1996	10050 42250 1987 23.8 1996	11790 43020 1993 83.6 1996	7623 32520 1993 431 2001	8549 20050 1982 933 1996	13400 44920 1985 864 1996	13900 32720 1984 253 1996	16810 48830 1994 966 2000	17350 48240 1995 585 1988	9189 43150 1995 551 1991	5232 28320 1993 367 1991	3403 18300 1993 135 1999
SUMMAR	Y STATIST	ICS	FOR	2001 CAL	ENDAR YEAR	F	OR 2002	WATER YEAR		WATER Y	EARS 1982	- 2002 <sup>a</sup>
LOWEST HIGHES	MEAN T ANNUAL ANNUAL M T DAILY ME	EAN EAN		6813 50600 0	Jun 13 Many Days		6914 52500 0	Jun 6 Many Days		10810 18760 2516 71100 0		1993 1991 20 1986 y Years

<sup>&</sup>lt;sup>a</sup> Post-regulation period.

# 06923700 NIANGUA RIVER BELOW BENNETT SPRINGS, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $37^{\circ}44^{\circ}17^{\circ}$ , long  $92^{\circ}51^{\circ}37^{\circ}$ , in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  SEc. 25, T.35 N., R.18 W., Dallas County, Hydrologic Unit 10290110, at bridge on Highway 64, 1,200 ft downstream from inflow of Bennett Spring Branch.

PERIOD OF RECORD. -- October 1983 to September 1988, July 1991 to current year.

REMARKS.--Ambient Water-Quality Monitoring Network station October 1983 to September 1988, November 1993 to current year. Special project station July 1991 to October 1995.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 01	1055	ENVIRONM	ENTAL	147	9.6	98	7.8	375	14.5	200	40.8	23.5	.75
JAN 22	1035	ENVIRONM	ENTAT.	171	11.3	100	7.1	348	8.7				
MAR 18	1045			376	12.3	115	8.1	352	11.3				
MAY		ENVIRONM											
21 21 JUL	1115 1116	ENVIRONM REPLICAT		1160	9.8	98 	7.7	229 	14.6	120	25.7 	13.6	.46 
29 SEP	1110	ENVIRONM	ENTAL	165	8.3	89	7.4	381	17.4				
09	1400	ENVIRONM	ENTAL	140	12.8	139	7.9	394	18.1				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 01 JAN	4.03	185	186	227	0	5.87	<.1	5.5	<10	202	<.04	.14	.77
22 MAR		163	164	200	0				<10		<.04	.14	.91
18		193	193	235	0				<10		<.04	.14	.67
MAY 21	4.84	107	106	130	0	5.62	<.1	5.5	18	130	E.02	.22	1.07
21 JUL											<.04	.21	.87
29 SEP		182	183	223	0				<10		<.04	.12	.92
09		201	203	248	0				<10		E.02	E.09	.89
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 01	E.006	<.06	<.02	E.03	K2	40	31	22	44	.2	<.04	<.1	<6
JAN 22	E.004	<.06	<.02	E.03	330	к4	К8						
MAR 18	<.008	<.06	<.02	<.06	K1	K1	К6						
MAY 21 21	.016 .063	E.04 E.04	E.01 <.02	E.04 E.04	120 650	220 237	372 334	123	228	.2	<.04	<.1	<6 
JUL 29	.008	<.06	E.01	E.04	20	21	38						
SEP 09	.009	E.03	E.02	<.06	K5	28	23						

# 06923700 NIANGUA RIVER BELOW BENNETT SPRINGS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
01	20	E.06	<1	10.2	<.01	<.3		11
JAN								
22								
MAR								
18								
MAY								
21	77	.20	M	9.3	<.01	<.3		3
21								
JUL								
29								
SEP								
09								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

## 06923950 NIANGUA RIVER AT TUNNEL DAM NEAR MACKS CREEK, MO

LOCATION.--Lat  $37^{\circ}56'14"$ , long  $92^{\circ}51'03"$ , in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.19, T.37 N., R.17 W., Camden County, Hydrologic Unit 10290110, at left end of concrete structure on top of Tunnel Dam, 6.5 mi southeast of Macks Creek.

DRAINAGE AREA.--598 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records good. Diversion upstream through tunnel for power generation. U.S.G.S. satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		WATER Y MEAN V	EAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	145 146 147 150 232	149 249 267 258 182	226 229 227 223 229	169 148 138 132 125	6500 4130 1820 1200 753	170 215 296 422 339	192 234 157 151 127	453 455 367 299 249	285 233 247 266 315	105 122 124 145 150	221 218 216 212 211	184 182 175 175 169
6 7 8 9	260 233 214 196 1150	161 172 177 182 222	230 226 223 220 215	124 180 194 181 252	692 612 529 454 411	324 341 319 294 313	159 167 181 176 150	209 881 8860 10900 6530	322 275 228 191 168	140 125 109 96 90	213 221 219 212 208	161 161 160 156 159
11 12 13 14 15	3350 745 369 230 179	217 213 209 206 202	213 252 328 381 378	197 145 239 237 232	368 318 274 243 239	293 227 232 202 169	153 127 242 408 291	2570 3030 10700 12000 3380	154 209 998 2110 670	95 127 105 84 87	238 242 242 237 218	152 150 147 162 162
16 17 18 19 20	172 147 150 145 125	199 195 193 195 191	502 2390 4080 1640 959	228 226 222 226 223	210 183 192 232 229	146 136 145 215 386	299 259 220 256 1090	2110 3970 6720 3730 1950	395 280 207 169 160	263 278 277 248 246	241 235 226 222 236	158 159 159 162 173
21 22 23 24 25	103 110 118 109 99	189 188 193 209 190	649 501 416 340 292	220 220 219 226 239	229 231 216 200 184	539 290 196 212 259	932 1290 941 687 377	1030 607 462 923 1940	127 121 126 134 149	243 251 400 292 256	234 218 268 276 254	166 155 147 142 138
26 27 28 29 30 31	220 241 229 165 150 156	196 196 199 208 218	240 198 176 140 113 159	252 280 290 287 349 2800	175 167 174 	1090 699 375 370 273 180	312 415 489 488 420	939 598 448 336 352 404	136 160 155 128 113	239 229 222 214 218 225	230 223 214 205 198 189	136 137 137 135 141
MEAN MAX MIN IN.	328 3350 99 0.63	201 267 149 0.37	535 4080 113 1.03	297 2800 124 0.57	756 6500 167 1.32	312 1090 136 0.60	380 1290 127 0.71	2819 12000 209 5.44	308 2110 113 0.57	187 400 84 0.36	226 276 189 0.44	157 184 135 0.29
							, BY WATER	· ·				
MEAN MAX (WY) MIN (WY)	226 492 1999 59.8 1998	346 1345 1997 66.8 1998	262 535 2002 130 1998	180 317 1999 56.9 1997	482 845 2001 39.2 1996	523 1458 1998 47.9 1996	600 1696 1999 106 2000	898 2819 2002 28.1 1997	232 370 1999 55.4 1996	164 248 2001 54.8 1997	170 385 1997 43.9 1996	189 462 1996 110 1999
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEA	R	FOR 2002 1	WATER YE	AR	WATER YEA	ARS 1995	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY MEA DAILY MEA SEVEN-DAY PEAK FLOI PEAK STA ANEOUS LOI RUNOFF (II ENT EXCEE! ENT EXCEE!	AN AN N MINIMUM W GE W FLOW NCHES) DS		8720 97 116  7.05 348 182 132	Feb 2 Jul 2 Oct 1	1	12000 84 98 13400 <sup>a</sup> 13.55 71 12.34 804 222 138	May Jul Jul May May Jul	14	361 555 143 14500 0.00 8.1 15200 <sup>a</sup> 14.19 0.00 8.20 597 159 46	Oct 1 Sep 2 Nov Nov	1999 2000 8 1996 8 1997 95 1997 8 1996 8 1996 8 1997

 $<sup>^{\</sup>rm a}$   $\,$  From rating extended above 10,500  $\,{\rm ft}^3/{\rm s}\,.$ 

#### 06925500 LAKE OF THE OZARKS NEAR BAGNELL, MO

LOCATION.--Lat 38°12'19", long 92°37'21", in SE  $\frac{1}{4}$  sec.19, T.40 N., R.15 W., Miller County, Hydrologic Unit 10290111, at left end of powerhouse section near left end of Bagnell Dam on Osage River, 2 mi southwest of Bagnell, and at mile 81.7.

DRAINAGE AREA. -- 14,000 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1931 to current year. Gage-height records collected at same site since 1932 are in reports of the National Weather Service, published as "Osage River at Bagnell Dam, Lakeside".

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum, adjustment of 1912. To obtain National Geodetic Vertical Datum of 1929, subtract 0.88 ft.

REMARKS.--Lake is formed by concrete gravity dam. Spillway is equipped with 12 tainter gates 34 ft wide by 22 ft high. Storage began in 1931. Usable capacity 1,218,000 ac-ft between elevation 630.00 ft (maximum draw-down) and 660.00 ft (top of gates). Dead storage, 708,800 ac-ft. Figures given herein are usable contents. Lake is used for flood control, power, and recreational purposes.

COOPERATION. -- Records were provided by the Ameren UE of Missouri.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,527,000 ac-ft, May 22, 1943, elevation, 665.45 ft; minimum, 322,100 ac-ft, Feb. 13, 1948, elevation, 639.95 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,222,000 ac-ft, May 9, elevation, 660.08 ft; minimum, 890,000 ac-ft, Mar. 5, elevation, 653.87 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 2400													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	657.91 657.87 657.83 657.95 658.09	658.70 658.79 658.79 658.79 658.80	658.54 658.54 658.41 658.41	659.80 659.68 659.64 659.25 659.06	657.57 657.49 657.27 657.12 656.96	654.20 654.32 654.25 654.00 653.87	656.45 656.38 656.25 656.10 656.00	658.80 658.25 658.01 658.53 659.05	659.02 659.12 659.12 659.10 659.12	659.5 659.58 659.76 659.74 659.69	658.76 658.74 658.72 658.68 658.70	658.11 658.10 658.32 658.45 658.45	
6 7 8 9 10	658.08 658.07 658.33 658.25 658.02	658.67 658.68 658.73 658.72 658.70	658.42 658.43 658.43 658.43 658.64	658.90 658.68 658.50 658.16 658.17	656.95 656.96 656.86 657.13 657.35	654.00 654.06 654.20 654.38 654.48	656.04 656.12 656.08 656.18 656.04	659.15 659.04 659.95 660.08 659.39	659.37 659.55 659.72 659.50 659.39	659.66 659.71 659.58 659.36 659.28	658.73 658.71 658.70 658.67 658.62	658.30 658.13 658.10 657.83 657.41	
11 12 13 14 15	657.95 657.84 657.91 657.96 658.00	658.70 658.60 658.56 658.51	658.87 659.15 659.19 659.21 659.23	658.18 658.18 658.18 658.18	657.35 657.01 656.75 656.30 655.90	654.50 654.72 654.84 655.05 655.14	655.89 655.77 655.80 655.79	658.51 658.40 658.89 658.45 657.51	659.40 659.40 659.32 659.39	659.43 659.68 659.69 659.71 659.38	658.57 658.55 658.42 658.42 658.46	657.37 657.33 657.30 657.32 657.33	
16 17 18 19 20	658.00 657.83 657.40 657.14 657.25	658.51 658.51 658.52 658.53 658.53	659.45 659.48 659.61 659.60 659.34	658.18 658.25 658.29 658.30	655.96 655.95 655.67 655.45 655.22	655.12 655.28 655.10 655.20 655.60	655.80 656.00 656.10 656.25 657.25	656.80 656.95 656.85 656.70 656.94	659.29 659.24 659.25 659.23 659.20	659.50 659.55 659.58 659.50	658.40 658.39 658.41 658.25 658.22	657.28 657.27 657.19 657.15 657.12	
21 22 23 24 25	657.32 657.60 658.00 658.40 658.72	658.53 658.52 658.53 658.57 658.56	659.30 659.35 659.40 659.43 659.44	658.07 658.06 658.00 657.90 657.85	654.85 654.55 654.54 654.62 654.71	655.60 655.55 655.75 655.90 655.73	657.77 657.90 657.97 658.33 658.40	657.39 658.02 658.40 658.84 658.62	659.14 659.05 659.00 659.00	659.62 659.56 659.38 659.43 659.53	658.12 658.10 658.50 658.50 658.49	657.10 657.07 657.04 656.98 656.95	
26 27 28 29 30 31	658.90 658.97 659.02 658.85 658.80	658.57 658.55 658.53 658.55 658.55	659.47 659.50 659.56 659.61 659.70	657.90 657.95 657.85 657.57 657.28 657.70	654.65 654.53 654.44 	655.60 655.52 655.64 655.85 656.10 656.34	658.45 659.00 659.13 658.76 658.80	658.55 658.51 658.45 658.63 658.80 658.94	659.00 659.89 659.30 659.40 659.40	659.55 659.27 658.89 658.84 658.85 658.78	658.32 658.18 658.17 658.16 658.14 658.12	656.93 656.87 656.85 656.83 656.80	
MEAN MAX MIN	658.10 659.02 657.14	658.61 658.80 658.51	659.11 659.74 658.41	658.33 659.80 657.28	656.08 657.57 654.44	655.03 656.34 653.87	656.88 659.13 655.69	658.37 660.08 656.70	659.28 659.89 659.00	659.45 659.76 658.78	658.45 658.76 658.10	657.44 658.45 656.80	
( - ) ( = )	1149000 +49000	1135000 -14000	1203000 +68000	1088000 -115000	918000 -170000	1015000 +97000	1149000 +134000	1158000 +9000	1183000 +25000	1148000 -35000	1111000 -37000	1039000 -72000	

CAL YR 2001....+255000 WTR YR 2002....- 61000

<sup>(-)</sup> Contents, in acre-feet, at end of month.(=) Change in contents, in acre-feet.

#### 06926000 OSAGE RIVER NEAR BAGNELL, MO

LOCATION.--Lat 38°11'29", long 92°36'26", in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.29, T.40 N., R.15 W., Miller County, Hydrologic Unit 10290111, on center pier of U.S. Highway 54 bridge, 1.3 mi downstream from hydroelectric plant of AmerenUE of Missouri, and at mile 80.5.

DRAINAGE AREA. -- 14,000 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1880 to current year. Monthly discharge only for some periods published in WSP 1310. Gage-height records collected in this vicinity 1880-1931 are contained in reports of the Missouri River Commission or the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 549.13 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission). Nonrecording gage from October 1880 to Oct. 15, 1930, and recording gage from Oct. 15, 1930, to Sept. 30, 1979, at site 1.7 mi downstream at datum 0.56 ft lower.

REMARKS.--Records fair. Flow regulated by Lake of the Ozarks (06925500), 1.3 mi upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximim stage prior to 1943, 43.1 ft in June 1844 (former site and datum), discharge,  $164,000 \text{ ft}^3/\text{s}$ .

		DISCHA	RGE, CUB	IC FEET PEI		WATER Y	YEAR OCTOBEI VALUES	R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	413 1050 1210 579 588	2870 1050 573 537 2890	759 534 3290 1410 477	2560 7380 5780 11800 6100	25700 24800 21600 19200 19400	11000 2540 2500 12300 9360	1830 7590 9230 7380 6190	21100 34100 28800 6650 2790	39900 39900 40800 41600 43200	1750 1740 2600 2440 3290	4100 2440 1020 893 1410	1010 611 604 913 2640
6 7 8 9 10	484 473 473 5060 25600	4640 2370 916 593 1330	478 485 477 472 483	4380 8130 8830 9140 1450	13600 15400 14700 6990 2910	4840 1470 501 2900 1440		17900 21300 35400 36700 35600	46600 47700 47800 47800 41300	1460 701 7970 13900 13000	601 628 1060 684 1290	5660 6120 1510 7100 10500
11 12 13 14 15	21300 20900 2510 453 9980	490 2740 1920 1510 674	479 497 499 485 480	484 470 464 464 456	10600 12200 11900 13200 12900	4370 1620 647 453 450	4130 594	35200 35300 36500 35400 34900	35200 33400 34000 33300 32600	3650 3360 1290 767 10100	1490 1690 5830 1460 1230	1880 574 538 1200 724
16 17 18 19 20	19700 14200 17200 10600 900	451 456 488 488 485	528 6130 3370 11600 12700	452 460 2770 984 455	2730 1290 8600 10300 10400	1350 929 7550 3770 2570	2130 2700 2030 1770 895	34800 35800 35200 34800 34700	34500 34300 34900 35200 35600	4690 6260 6190 10100 4320	2380 741 581 3490 2900	1670 1110 2850 2920 953
21 22 23 24 25	457 466 687 532 465	485 486 471 430 963	3690 527 488 490 488	5360 3580 3420 5290 4010	12500 11500 2390 1290 4990	8540 12500 4630 4370 10800	1320 5210 6340 4010 8150	36500 36500 42100 49000 49200	34900 35200 34600 30500 28500	1620 9700 8890 2820 1950	5810 6360 3130 628 564	746 1030 764 1530 1090
26 27 28 29 30 31	889 566 472 7850 2790 704	570 1080 859 484 470	488 2920 2700 929 1750 767 4940	1670 586 3020 7650 15000 24900	9530 12300 11000 	11500 9920 4690 2280 506 560	20500 26800	48800 48700 48600 42400 37200 37900	31000 28700 9060 5450 4480	5410 7670 9310 2350 1710 4150	5430 4560 744 577 567 573	555 1820 651 564 634
MEAN MAX MIN IN.	5469 25600 413 0.45	4640 430 0.09	12700 472 0.17	24900 452 0.39	25700 1290 0.86	4608 12500 450 0.38	26800 451 0.46	34510 49200 2790 2.84	34070 47800 4480 2.72	5005 13900 701 0.41	2092 6360 564 0.17	2016 10500 538 0.16
MEAN MAX (WY) MIN (WY)	7194 67300 1987 471 1957	8521 45270 1987 538 1957	8109 45050 1993	8012 34700 1993 554 2001	10040 34720 1949 535 1964	13570 57300 1973 359 1931	2 <sup>a</sup> , BY WATER 15610 70040 1973 452 1931	15990 92260 1943 516 1956	15550 78160 1935 515 1931	9647 96780 1951 492 1931	4937 26560 1993 510 1956	5720 54540 1951 486 1954
SUMMAR	Y STATIST	ICS	FOR	2001 CALE	NDAR YEAR		FOR 2002 W	ATER YEAR		WATER YE	EARS 1931	- 2002 <sup>a</sup>
LOWEST HIGHES: LOWEST ANNUAL MAXIMUM MAXIMUM INSTAN: ANNUAL 10 PERC 50 PERC	ANNUAL ME	EAN EAN AN Y MINIMUM OW AGE OW FLOW INCHES) EDS EDS		8429 35300 Jun 405 476 8.17 27500 2600 488	15-17,20 Sep 24 Nov 18		9397  49200 413 464 50000 20.45 323 9.11 34900 2920 485	May 25 Oct 1 Jan 11 May 24 May 24 Nov 24		10230 23360 1046 212000 235 320 220000 48.80 183 9.93 30300 4020 506		1973 1954 19 1943 23 1971 3 1931 19 1943 19 1943 9 1969

<sup>&</sup>lt;sup>a</sup> Post-regulation period.

## 06926510 OSAGE RIVER BELOW ST. THOMAS, MO

LOCATION.--Lat 38°25'18", long 92°12'31", in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.1, T.42 N., R.12 W., Cole County, Hydrologic Unit 10290111, on downstream bridge pier of State Highway B, 3.8 mi north of St. Thomas, and at mile 34.5.

DRAINAGE AREA.--14,584 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1, 1996 to current year. August 1931 to Sept. 30, 1996, records collected at site 8.6 mi upstream, published as Osage River near St. Thomas (06926500).

GAGE.--Water-stage recorder. Datum of gage is 525.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair. Considerable regulation by Lake of the Ozarks (06925500), 47.2 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAF	RGE, CUBIC	FEET PER			YEAR OCTOBER	R 2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	458 444 815 1140 868	1190 3420 1630 964 801	765 916 920 2850 1630	5050 3020 6800 6520 9960	31900 26900 22400 20500 20300	9630 10600 2710 6490 8600	7890 7950	21500 31800 31800 17700 5490	39400 40000 40100 41500 41900	3300 1910 2060 2620 5390	4250 4020 2230 1260 997	632 821 761 643 746
6 7 8 9 10	755 624 559 539 15400	2940 4670 2420 1300 936	799 683 657 637 623	5710 5080 8350 7070 7820	13600 14800 13900 16200 4110	9480 4220 2200 1470 3330	1270 1550 3810	8020 19500 44700 53500 47600	45100 47100 47500 47700 45600	2200 1400 1070 9790 14100	1310 865 710 892 915	2160 5640 6240 1680 8170
11 12 13 14 15	24900 18400 15200 2560 1880	1320 773 2260 1950 1450	623 725 1210 1200 1120	1800 835 700 662 637	4740 9050 12000 11600 11800	2600 3510 2120 1330 903	6260 3750 1240	42700 41000 52800 49600 45800	38500 34200 33800 34700 33200	11600 5320 5690 1860 1650	1160 1500 1700 5570 1670	9580 1810 791 654 987
16 17 18 19 20	16600 14300 16000 14100 7680	1080 659 598 624 619	1960 5490 7990 5730 11800	620 607 608 2610 1360	10600 2560 2200 9160 8890	822 1400 1870 7010 4930	e3370 e3520 e2520	43800 47300 45700 38300 35800	33100 34600 34200 35000 35200	11500 4160 6120 7180 9350	1350 2000 1160 798 3720	944 1360 1260 2170 2560
21 22 23 24 25	1510 800 823 2170 1340	602 600 599 642 636	11500 3470 1290 958 859	886 4950 3190 3810 4440	11300 11000 9560 2450 1690	3990 11500 8850 4290 4600	4750 5860 5260	36300 36900 38100 48400 52100	35000 34800 34900 32000 28900	4400 2270 10000 7630 2770	2760 5910 6600 2670 991	1280 755 1020 907 1240
26 27 28 29 30 31	927 1040 968 1280 7400 2790	817 924 1020 1170 774	810 2530 3040 1440 1620 1290	3940 1830 1050 3490 9240 29200	6140 9880 11300 	11600 12000 8140 4540 2750 1330	12000 12100 15900 25600	50000 49600 49200 47200 39200 37600	28000 29500 22000 6370 3940	2020 6660 7820 8990 2240 1770	781 5690 3980 1150 713 657	1230 684 1360 939 654
MEAN MAX MIN IN.	5622 24900 444 0.45	1313 4670 598 0.10	2488 11800 623 0.20	4576 29200 607 0.36	11800 31900 1690 0.85	5123 12000 822 0.41	25600 1050	39000 53500 5490 3.10	34590 47700 3940 2.66	5317 14100 1070 0.42	2257 6600 657 0.18	1989 9580 632 0.15
							2, BY WATER					
MEAN MAX (WY) MIN (WY)	9775 41410 1999 661 2001	10130 35360 1999 629 2001	8844 16580 1999 1670 2001	7654 18890 1998 687 2001	14020 27140 1999 5161 2000	18450 35430 1997 5123 2002	32900 1998 1814	19210 43010 1999 1334 2000	23410 37210 1999 6089 2000	11240 21200 1999 5317 2002	4624 8775 1998 2257 2002	4278 14790 1998 1263 2001
SUMMARY	Y STATIST	ICS	FOR 2	001 CALEN	DAR YEAR		FOR 2002 W	ATER YEAR		WATER YEA	ARS 1996	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	C ANNUAL MANNUAL MICE DAILY MICE	EAN EAN AN Y MINIMUM OW AGE OW FLOW INCHES) EDS EDS			Jun 6 Oct 2 Sep 26		9992 53500 444 612 54800 17.73 436 9.36 35100 3520 755	May 9 Oct 2 Nov 18 May 13 Oct 2		12310 22740 3699 63600 563 74700 21.86 320 11.54 35100 5860 665	Sep Oct Jul Jul	1999 2000 27 1998 24 1999 26 2000 26 1998 26 1998 24 1999

e Estimated

# 06926510 OSAGE RIVER BELOW ST. THOMAS, MO--Continued (Ambient Water-Quality Monitoring Network)

#### WATER-QUALITY RECORDS

PERIOD OF RECORD. -- October 1974 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: October 1974 to September 1981. WATER TEMPERATURE: October 1974 to September 1981.

REMARKS.--National Stream-Quality Accounting Network station October 1975 to September 1995. Ambient Water-Quality Monitoring Network station October 1995 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 398 microsiemens per centimeter, Jan. 1, 1981; minimum daily, 140 microsiemens per centimeter, Sept. 3, 1981.

WATER TEMPERATURE: Maximum daily, 30.0 °C, July 29, 1977, July 25 and Aug. 11, 1980; minimum daily, 0.0 °C, Jan. 21, 1978.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 07	0915	ENVIRONM	ENTAL	6190	8.2	84	7.6	254	15.9	120	33.9	9.68	2.64
JAN 09	1000	ENVIRONM	ENTAL	7280	11.0	92	7.7	248	6.9				
MAR 07	0940	ENVIRONM	ENTAL	4420	12.8	104	8.3	272	6.1				
MAY 08	1000	ENVIRONM	ENTAL	43700	8.3	84	7.9	243	15.3	120	29.8	11.1	2.65
JUL 15	1030	ENVIRONM	ENTAL	992	7.3	89	7.7	257	23.6				
SEP 03	1300	ENVIRONM	ENTAL	740	6.4	88	7.8	271	30.3				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 07 JAN	5.65	96	96	118	0	12.3	E.1	17.8	18	140	<.04	.37	.14
09 MAR		93	93	113	0				10		E.02	.32	.32
07 MAY		113	112	137	0				<10		<.04	.32	.17
08 JUL	4.15	108	108	132	0	4.85	<.1	13.3	152	148	<.04	.77	.18
15 SEP		103	104	126	0				105		<.04	.74	.37
03		109	110	134	0				11		<.04	.49	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 07	_ 000	<.06	E.01	E 06	38	K75	26	36	181	1.0	<.04	_ 1	<6
JAN	<.008			E.06				36	181	1.0	<.04	<.1	<6
09 MAR	<.008	<.06	E.02	E.03	K4	K10	K6						
07 MAY	<.008	<.06	<.02	<.06	<1	K1	K15	140	1000				
O8	E.005	E.03	.02	.15	K1900	K5940	K4680	149	1090	.7	<.04	<.1	<6
15 SEP	.016	E.04	.03	.10	K400	290	445						
03	<.008	E.04	.03	.08	K8	К9	K65						

# 06926510 OSAGE RIVER BELOW ST. THOMAS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
07	13	E.06	M	5.0	<.01	<.3	5	7
JAN								
09								
MAR								
07								
MAY								
08	90	.39	4	25.1	E.01	E.2		21
JUL								
15								
SEP								
03								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### 06928000 GASCONADE RIVER NEAR HAZELGREEN, MO

LOCATION.--Lat 37°45'33", long 92°27'06", in SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.15, T.35 N., R.14 W., Laclede County, Hydrologic Unit 10290201 on downstream end of center pier of bridge on south outer road, 400 ft upstream from eastbound bridge of Interstate 44, 1 mi downstream from Osage Fork, 1.5 mi west of Hazelgreen, and at mile 180.

DRAINAGE AREA.--1,250 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1928 to September 1971, October 2000 to current year. Prior to April 1929 monthly discharge only published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 844.75 ft above National Geodetic Vertical Datum of 1929. Prior to March 6, 1956, nonrecording gage at present site and datum. March 6, 1956 to Dec. 17, 1957, nonrecording gage at site 750 ft downstream at present datum and Dec. 18, 1957 to Aug. 20, 1958, nonrecording gage at present site and datum. Aug. 20, 1958 to September 1971, water-stage recorder at present site and datum.

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1916 reached a stage of 30.6 ft from flood mark.

		DISCHAF	RGE, CUBIC	FEET PER	SECOND, W			BER 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	122	456	362	12400	442	1310	1480	777	204	136	176
2	65	129	802	346	11500	926	1170	1290	701	195	128	159
3	63	127	668	323	3800	2050	1060	1130	637	196	123	145
4	62	126	536	311	2610	2340	952	1010	590	189	119	136
5	85	123	443	285	2050	1830	854	897	762	186	141	126
6	86	123	381	271	1710	1620	778	812	658	181	146	117
7	85	122	336	263	1440	1550	726	1050	636	175	138	111
8	83	122	302	253	1260	1450	748	10400	608	171	122	106
9	81	120	275	247	1120	1390	3110	37800	542	165	112	101
10	294	118	254	242	1020	1490	3180	22200	495	160	110	100
11	150	e116	236	233	917	1580	2250	6830	466	163	109	98
12	127	e113	235	227	824	1460	1790	5670	458	158	101	98
13	121	111	282	219	747	1390	1570	18300	645	150	110	95
14	118	109	404	213	686	1270	1940	12200	779	149	183	92
15	118	107	862	208	633	1190	2200	4890	683	167	274	93
16	125	106	1400	201	588	1140	1880	3500	567	236	254	92
17	124	104	4920	197	551	1330	1590	7330	488	228	293	94
18	120	102	11700	193	534	1280	1750	17500	433	198	262	96
19	116	102	5140	195	e503	1400	1520	14100	396	211	228	99
20	114	101	2610	194	e589	4820	1360	4610	363	193	215	118
21	113	100	1820	189	e680	7030	1590	3160	333	263	214	112
22	112	100	1400	187	642	3440	2680	2460	309	384	239	119
23	111	99	1140	189	626	2460	2020	2060	286	352	250	185
24	114	129	959	219	588	2030	1620	1850	267	297	214	173
25	110	138	810	276	560	3000	1710	1660	260	258	193	157
26 27 28 29 30 31	105 102 106 124 128 126	289 390 337 308 328	700 614 548 491 442 401	639 681 614 552 956 4400	533 499 469 	4910 3260 2470 2070 1790 1530	1590 1420 1870 1700 1430	1490 1270 1120 1020 940 854	252 256 249 235 218	221 200 182 166 155 145	181 234 262 259 225 197	139 124 114 105 98
MEAN MAX MIN IN.	112 294 62 0.10	151 390 99 0.13	1341 11700 235 1.24	448 4400 187 0.41	1789 12400 469 1.49 OF RECORD,	2127 7030 442 1.96	1646 3180 726 1.47	6158 37800 812 5.68	478 779 218 0.43	203 384 145 0.19	186 293 101 0.17	119 185 92 0.11
MEAN	495	644	714	938	1204	1572	1744	1918	1112	540	287	361
MAX	4943	4273	3361	4805	3209	6584	10180	7340	8710	5322	1467	2519
(WY)	1950	1952	1943	1950	1938	1945	1945	1943	1935	1958	1946	1970
MIN	31.6	65.8	72.6	68.0	91.2	141	130	202	83.2	41.8	30.8	25.6
(WY)	1957	1954	1956	1956	1964	1956	1956	1932	1936	1934	1936	1954
SUMMARY	STATISTI	CS	FOR 2	001 CALEN	DAR YEAR		FOR 2002	WATER YEAR		FOR PI	ERIOD OF	RECORD
HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DALLY MEAN LOWEST DALLY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			532 17500 53 60  5.78 850 248 85	Feb 26 Aug 28 Aug 24		1232 37800 62 73 49500 25.95 61 13.38 2290 308 108	May 9 Oct 4 Oct 1 May 9 May 9 Oct 4		959 2236 123 58800 19 21 76400 29.60 18 10.42 2010 345 85	Sep Sep Apr Apr	1950 1954 12 1935 20 1954 14 1954 14 1945 14 1945 1 1936

e Estimated

## 06928300 ROUBIDOUX CREEK ABOVE FT. LEONARD WOOD, MO

LOCATION.--Lat  $37^{\circ}36^{\circ}04^{\circ}$ , long  $92^{\circ}14^{\circ}02^{\circ}$ , in NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.3, T.33 N., R.12 W., Pulaski County, Hydrologic Unit 10290201, on State Highway 17 bridge, 12 mi south of Ft. Leonard Wood.

DRAINAGE AREA.--165 mi<sup>2</sup>.

PERIOD OF RECORD.--Dec. 29, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage unknown.

 ${\tt REMARKS.--Records\ fair\ except\ for\ estimated\ daily\ discharges,\ which\ are\ poor.\ U.S.G.S.\ satellite\ telemeter\ at\ station.}$ 

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.8 3.5 3.3 3.4 5.7	6.8 9.3 11 11	324 192 130 94 74	39 35 33 31 29	3000 633 418 304 232	53 486 506 321 254	164 145 125 107 96	219 197 174 151 131	68 58 50 46 53	12 12 12 12 13	6.2 6.7 7.3 e9.8 e7.2	3.4 3.0 2.8 2.9 2.9
6 7 8 9 10	6.6 6.4 5.5 4.8 5.6	9.6 9.0 8.6 8.3	60 50 44 36 32	29 27 26 26 25	194 167 145 132 119	267 250 215 251 308	88 84 485 726 459	119 221 7580 2230 991	60 52 44 38 36	13 12 11 9.5 9.9	e6.4 5.9 5.4 4.9 4.8	2.8 3.0 2.7 2.5 2.3
11 12 13 14 15	7.8 8.7 8.2 8.0 7.9	8.1 8.0 7.9 7.8 7.8	28 34 197 271 246	24 22 21 21 19	102 91 82 74 68	258 290 270 231 199	325 255 456 469 405	614 1110 4510 1050 635	36 37 162 122 75	11 12 14 13 11	4.6 4.4 5.4 8.3 8.1	2.4 2.3 2.2 2.1 2.2
16 17 18 19 20	8.3 7.8 7.5 7.8 7.2	8.6 7.6 7.4 7.5 7.2	863 3790 873 460 305	19 18 18 20 19	63 58 54 56 74	397 337 262 1140 2020	298 493 350 266 232	481 5270 2430 867 594	56 46 38 32 28	10 9.8 10 10	7.2 7.0 6.6 6.2 6.3	2.6 3.5 3.9 4.7 5.9
21 22 23 24 25	7.4 7.4 7.0 7.2 7.3	7.1 6.9 7.1 82 194	226 180 146 118 97	18 18 20 143 267	110 109 97 87 80	650 424 329 274 996	456 361 267 235 218	451 349 279 234 206	24 21 19 17 16	9.6 9.8 14 12 9.6	6.0 5.3 5.5 5.9	5.6 5.0 4.5 4.0 3.5
26 27 28 29 30 31	7.7 7.2 6.9 6.8 7.0 6.8	106 72 59 58 318	82 72 64 56 48 44	196 150 121 100 171 3350	71 63 58  	647 431 340 279 229 190	190 335 334 253 213	172 145 124 111 96 82	18 16 15 14 13	8.6 7.6 7.2 6.8 7.1 7.4	5.2 5.0 4.5 4.2 3.9 3.6	3.1 2.9 2.6 2.4 2.5
MEAN MAX MIN	6.66 8.7 3.3	36.0 318 6.8	298 3790 28	163 3350 18	241 3000 54	423 2020 53	296 726 84	1027 7580 82	43.7 162 13	10.6 14 6.8	5.92 9.8 3.6	3.21 5.9 2.1
STATIST	ICS OF MO	ONTHLY MEA	N DATA FOR	R WATER Y	EARS 2000	- 2002,	BY WATER	ZEAR (WY)				
MEAN MAX (WY) MIN (WY)	5.63 6.66 2002 4.60 2001	22.4 36.0 2002 8.76 2001	153 298 2002 8.49 2001	69.5 163 2002 17.2 2000	223 401 2001 35.2 2000	174 423 2002 43.4 2000	114 296 2002 18.0 2000	362 1027 2002 8.17 2000	41.7 73.6 2001 7.71 2000	9.77 10.5 2002 8.76 2000	5.14 5.92 2002 4.02 2000	5.79 11.9 2001 2.31 2000
SUMMARY	STATISTI	ics	FOR	2001 CAL	ENDAR YE	AR	FOR 2002 V	VATER YEA	AR.	WATER YE	ARS 2000	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			4330 3.1 3.5  129 21 5.5	Feb 2 Aug 2 Aug 2	28	7580 2.1 2.3 12900 14.86 2.0 427 35 4.7	May Sep 1 Sep May May Sep 13,3	.4 9 8 8	134 214 54.5 7580 1.2 1.3 12900 14.86 0.82 264 18	Aug 3	2002 2001 8 2002 30 2000 29 2000 8 2002 8 2002 1 2000	

e Estimated

## 06928430 ROUBIDOUX CREEK BELOW FT. LEONARD WOOD, MO

LOCATION.--Lat  $37^{\circ}49^{\circ}40^{\circ}$ , long  $92^{\circ}12^{\circ}19^{\circ}$ , in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  Sec.24, R.36 N., R.12 W., Pulaski County, Hydrologic Unit 10290201, on right bank 400 ft downstream from Interstate 44 bridge, on Superior Road, 0.9 mi south of Business 44, and 0.6 mi upstream from Roubidoux Spring.

DRAINAGE AREA. -- 287 mi<sup>2</sup>.

PERIOD OF RECORD. -- Feb. 23, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage unknown.

REMARKS.--Records fair. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	0.57 0.57 0.62 0.63 2.1	1.8 2.5 2.2 1.8 1.8	2.8 26 32 6.4 1.5	3.0 2.8 2.6 2.4 2.3	5110 1280 585 313 200	2.4 15 738 275 235	88 66 46 29 15	210 208 153 110 70	6.6 6.3 4.9 3.9 5.6	0.28 0.47 0.95 0.78 0.50	0.93 0.89 0.66 0.52 0.49	0.58 0.62 0.65 0.46 0.33	
6 7 8 9 10	1.3 0.69 0.67 0.99 9.1	1.7	1.2 1.2 0.88 0.80	2.3 2.2 2.0 2.2 1.8	134 87 55 41 26	180 180 110 114 195	8.2 6.3 7.4 600 575	41 87 7200 5560 1360	5.8 5.9 4.4 3.7 4.1	0.49 0.49 0.49 0.54 1.6	0.51 0.52 0.54 0.59 0.78	0.34 0.34 0.43 0.57 0.40	
11 12 13 14 15	2.0 1.2 1.1 1.0 0.93	1.7 1.7 1.7 1.6 1.7	0.85 1.7 1.8 2.2 2.1	1.7 1.6 1.4 1.5	10 9.5 8.4 7.3 6.7	184 182 205 166 124	325 203 224 327 410	613 500 7240 1570 642	3.7 3.6 3.8 3.0 2.6	1.0 0.82 0.77 0.47 0.45	1.6 1.3 3.1 2.0 1.3	0.26 0.21 0.17 0.16 0.20	
16 17 18 19 20	1.1 0.98 2.0 2.5 2.5	1.7 1.7 1.7 1.8 1.5	35 3680 2080 956 566	1.4 1.4 1.3 1.5	4.6	111 264 195 193 2830	260 266 346 369 306	360 3310 5660 978 503	1.7 1.4 1.2 1.1	0.56 0.56 0.49 0.61 0.60	1.3 1.2 1.1 1.4 2.3	0.21 0.23 0.19 0.21 0.47	
21 22 23 24 25	2.6 2.6 3.2 3.6 3.0	1.4 1.3 1.4 3.3 1.8	327 176 86 38 16	1.3 1.3 1.5 1.6	3.8 3.4 2.9 2.6 2.9	1170 559 319 229 1120	331 484 278 195 156	292 197 137 105 76	0.99 0.87 0.67 0.66 0.71	0.52 0.62 1.3 0.76 0.60	1.5 1.4 1.5 1.8	0.26 0.13 0.06 0.04 0.03	
26 27 28 29 30 31	2.6 2.2 2.1 2.0 1.8 1.8	1.2 0.98 1.5 2.3 3.5	7.9 5.1 4.0 4.2 3.7 3.4	1.2 4.1 8.6 4.2 12 1560	2.8 2.6 2.4 	1320 622 370 253 188 133	125 121 376 277 202	53 33 19 13 9.4 7.4	0.51 0.38 0.34 0.33 0.29	0.85 1.1 1.2 1.2 1.4	1.1 0.93 0.82 0.76 0.53 0.51	0.06 0.09 0.10 0.11 0.12	
MEAN MAX MIN	1.94 9.1 0.57	1.88 3.5 0.98	260 3680 0.80	52.8 1560 1.2	283 5110 2.4	412 2830 2.4	234 600 6.3	1204 7240 7.4	2.67 6.6 0.29	0.77 1.6 0.28	1.14 3.1 0.49	0.27 0.65 0.03	
STATIST	CICS OF MO	NTHLY M	EAN DATA	FOR WATER	YEARS 200	00 - 2002	, BY WATER	R YEAR (WY)					
MEAN MAX (WY) MIN (WY)	1.61 1.94 2002 1.29 2001	1.72 1.88 2002 1.57 2001	130 260 2002 0.70 2001	26.7 52.8 2002 0.61 2001	316 350 2001 283 2002	150 412 2002 2.55 2000	79.3 234 2002 1.76 2000	408 1204 2002 0.87 2000	32.6 94.5 2001 0.70 2000	0.71 0.81 2001 0.55 2000	0.56 1.14 2002 0.24 2000	0.25 0.29 2001 0.19 2000	
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEAF	ર :	FOR 2002 1	WATER YEAR		WATER YE	ARS 2000 -	- 2002	
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DALLY MEAN LOWEST DALLY MEAN			5120 0.10 0.15  25 1.4 0.25	Feb 25 Sep 5 Aug 17		7240 0.03 0.07 14000 14.13 0.03 337 2.3 0.49	May 13 Sep 25 Sep 23 May 9 May 9 Sep 25		123 206 39.8 7240 0.03 0.07 14000 14.13 0.05 Aug 3 200 1.5 0.30	May 13 Sep 25 Sep 23 May 5 May 9 0,31,Sep 5	5 2002 3 2002 9 2002 9 2002		

# 06928440 ROUBIDOUX SPRING AT WAYNESVILLE, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $37^{\circ}49^{\circ}30^{\circ}$ , long  $92^{\circ}11^{\circ}53^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.25 T.36 N., R.12 W., Pulaski County, Hydrologic Unit 10290201, from I-44 Exit 159 at Waynesville to Business 44, approximately 1.5 mi to Superior Road, south on Superior Road 0.3 mi to spring.

PERIOD OF RECORD.--November 1993 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 19	0945	ENVIRONM	ENTAL	8.3	5.9	61	7.6	412	15.3	220	44.8	27.0	.52
JAN 22	1300	ENVIRONM	ENTAL	24	9.6	89	6.9	355	10.8				
MAR 14	0920	ENVIRONM	ENTAL	204	9.6	88	7.3	285	9.8				
MAY 08	1015	ENVIRONM	ENTAL	400	6.9	69	7.7	296	14.1	160	32.6	18.3	1.02
JUL 15	1335	ENVIRONM	ENTAL	40	6.0	63	7.4	362	16.5				
SEP 10	1455	ENVIRONM	ENTAL	30	6.1	63	7.5	407	15.9				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 19	2.68	206	208	253	0	5.74	.1	6.3	<10	240	<.04	E.06	.38
JAN 22		165	170	207	0				<10		<.04	E.07	.92
MAR 14		133	134	164	0				<10		<.04	<.10	. 41
MAY 08	2.88	147	147	179	0	5.25	<.1	6.8	12	165	<.04	E.08	. 29
JUL 15		186	187	229	0				<10		<.04	<.10	. 37
SEP 10		94	96	118	0				<10		<.04	E.08	.52
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV	. 222	. 65		. 05	*	*	****	6	20	•	. 04		
19 JAN	<.008	<.06	<.02	<.06	K2	K2	K10	8	30	. 2	<.04	<.1	<6
22 MAR	<.008	<.06	<.02	<.06	К9	K11	K2						
14 MAY	<.008	<.06	<.02	<.06	K2	K10	K10						
08 JUL	<.008	<.06	<.02	<.06	K25	63	480	18	201	. 2	<.04	<.1	<6
15 SEP	E.005	<.06	<.02	<.06	K18	K10	К9						
10	<.008	<.06	E.01	<.06	K3	K5	K1						

# 06928440 ROUBIDOUX SPRING AT WAYNESVILLE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
NOV 19	<10	<.08	<1	<2.0	<.01	E.2		5					
JAN 22													
MAR 14													
MAY 08	13	<.08	<1	<2.0	<.01	<.3		1	<.006	<.006	<.004	<.005	<.007
JUL 15													
SEP 10													
DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLITRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLITRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L)
NOV	(82073)	(04028)	(82680)	(820/4)	(38933)	(04041)	(82082)	(04040)	(39572)	(39381)	(82077)	(82008)	(82663)
19 JAN													
22 MAR													
14 MAY													
08 JUL 15	<.010	<.002	E.007	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
SEP													
20													
DATE	ETHO- PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
NOV 19													
JAN 22													
MAR 14													
MAY 08 JUL	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010
15 SEP													
10													
DATE	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
NOV													
19 JAN 22													
MAR 14													
MAY 08	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
JUL 15													
SEP 10													

# 06928440 ROUBIDOUX SPRING AT WAYNESVILLE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	WATER FLTRD 0.7 µ GF, REC (µg/L)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L)
NOV 19 JAN			
22 MAR			
14 MAY			
08 JUL	<.005	<.002	<.009
15 SEP			
10			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

#### 06930000 BIG PINEY RIVER NEAR BIG PINEY, MO

LOCATION.--Lat  $37^{\circ}39^{\circ}56^{\circ}$ , long  $92^{\circ}03^{\circ}01^{\circ}$ , in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec. 8, T.34 N., R.10 W., Pulaski County, Hydrologic Unit 10290202, on downstream side of left pier of Ross bridge, 3.0 mi east of Big Piney, 14.8 mi upstream from Spring Creek, and at river mile 22.

DRAINAGE AREA. -- 560 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1921 to Sept. 30, 1982, April 4 1988 to Sept. 30, 1996, Nov. 23, 1999 to current year.

REVISED RECORDS.--WSP 826: 1935. WSP 1176: 1943, 1945. WSP 1340: 1922-23, 1927-28(M), 1933(M), 1935(M).

GAGE.--Water-stage recorder. Datum of gage is 800.99 ft above National Geodetic Vertical Datum of 1929. Prior to July 12, 1961, nonrecording gage at same site and datum.

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 24.54 ft, Dec. 4, 1982, from floodmark, present datum, discharge, 81,200 ft<sup>3</sup>/s, from indirect measurement.

		DISCHAR	GE, CUBIC	FEET PER			YEAR OCTOBER VALUES	2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	79 79 85 81 95	108 116 117 111 109	771 568 437 365 318	262 248 234 223 214	6870 2230 1290 993 805	333 430 466 578 620	604 562 516	641 625 583 533 489	521 483 446 414 406	179 178 176 180 180	178 180 175 175 158	137 134 132 130 126
6 7 8 9	97 94 96 95 97	107 107 103 99 99	284 256 238 219 201	212 207 201 194 188	690 615 556 504 465	602 600 579 577 1410	442 625 2380	461 607 10300 21400 4660	397 377 351 334 358	180 175 167 164 161	148 143 137 137 139	123 131 126 121 116
11 12 13 14 15	109 106 110 114 111	99 98 97 97 98	188 194 225 367 455	184 179 175 171 168	429 396 372 350 330	912 892 943 834 758	822 865 1560	2290 2050 7630 3380 2030	328 339 357 361 333	170 195 187 247 209	142 145 170 206 344	114 113 113 113 111
16 17 18 19 20	115 110 104 105 102	97 97 96 98 95	547 4500 3950 1470 1020	164 162 161 169 165	314 301 327 325 343	857 915 802 952 4360	943 993 851	1640 6050 13000 3100 1940	306 286 274 261 253	192 178 174 171 438	303 244 211 198 203	112 126 124 135 163
21 22 23 24 25	100 100 102 106 115	95 97 99 159 788	792 659 570 499 446	162 159 161 192 470	467 500 464 433 411	2370 1370 1060 922 1030	1010 848 781	1520 1280 1110 1000 918	245 233 215 209 206	582 372 288 300 418	191 174 165 159 155	168 177 162 144 132
26 27 28 29 30 31	137 132 127 121 116 111	481 346 297 275 397	404 373 345 321 300 279	541 464 411 374 375 938	391 368 346 	1180 1000 894 823 757 693	788 793 722 651	829 745 689 645 605 564	203 196 191 189 188	305 246 214 194 184 177	155 164 165 154 148 142	128 124 120 118 116
MEAN MAX MIN IN.	105 137 79 0.22	169 788 95 0.34	696 4500 188 1.43	262 938 159 0.54	782 6870 301 1.45	984 4360 333 2.03	2380 442	3010 21400 461 6.20	309 521 188 0.62	232 582 161 0.48	178 344 137 0.37	130 177 111 0.26
MEAN MAX (WY) MIN (WY)	267 1261 1950 82.3 1957	478 2127 1952 106 1965	453 1940 1943 98.5 1956	550 2554 1950 98.5 1956	633 2237 1982 127 1934	827 2565 1945 154 1981	986 3637 1927 168	940 3324 1990 132 2000	601 4490 1983 111 1934	288 1969 1951 89.3 1934	238 1947 1927 80.7 2001	255 1959 1993 72.9 1954
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEA	R	FOR 2002 1	WATER YE	AR	FOR PI	ERIOD OF	RECORD
LOWEST ANIUAL ANNUAL ANIUAL ANIUAL ANIUAL ANIUAL ANIUAL 10 PERC.	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY PEAK FLOI PEAK STA ANEOUS LOI RUNOFF (II ENT EXCEE ENT EXCEE	AN AN N MINIMUM W SE W FLOW NCHES) DS		9980 60 63  6.68 441 150 82	Feb 2 Sep Sep		21400 79 87 38300 20.60 77 15.76 1010 275 108	May Oct 1 Oct May May Oct 1	,2 1 9 9	544 1179 149 22900 60 63 38300 20.70 58 13.19 1060 257 122	Sep Sep May Dec	1927 1954 26 1993 7 2001 2 2001 9 2002 27 1942 ,8 2001

## 06930060 BIG PINEY RIVER BELOW FT. LEONARD WOOD, MO

LOCATION.--Lat  $37^{\circ}45'35"$ , long  $92^{\circ}03'30"$ , in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.17, T.35 N. R.10 W., Pulaski County, Hydrologic Unit 10290202, on right downstream wingwall of bridge on East Gate Ft. Leonard Wood road, 1.8 mi west of Highway J, 8.5 mi south of Interstate 44.

DRAINAGE AREA. -- 593 mi<sup>2</sup>.

PERIOD OF RECORD. -- Dec. 3, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

	, , , , , , , , , , , , , , , , , ,	DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	CAR OCTOBER	2001 TO S	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	133	753	324	6690	339	701	753	583	244	222	194
2	112	141	686	301	3350	462	656	741	549	236	221	192
3	112	143	540	286	1500	632	612	704	516	240	227	186
4	115	139	449	274	1150	676	570	657	490	238	219	185
5	124	137	390	264	943	674	534	611	479	234	216	181
6	127	135	345	259	818	644	508	579	472	235	207	177
7	122	135	310	252	738	637	488	657	452	228	208	180
8	121	133	288	241	677	622	528	7090	431	223	203	184
9	122	131	266	235	622	612	2190	32300	410	214	198	177
10	131	130	248	228	580	1220	1370	6390	426	211	195	174
11	127	129	233	224	540	1030	1050	2290	409	210	201	170
12	134	130	241	219	515	929	905	1760	402	238	197	169
13	134	129	278	214	455	1030	919	8680	420	230	213	168
14	135	129	356	209	434	915	1120	4650	418	246	237	168
15	134	129	512	204	410	830	2240	2050	403	251	288	169
16	137	130	610	201	388	866	1230	1530	377	232	321	167
17	133	129	3390	199	371	1010	1020	4630	357	226	283	177
18	128	129	5340	197	353	883	1070	20000	339	218	258	181
19	128	130	1680	201	347	889	947	4150	327	215	244	182
20	130	128	1150	199	359	3830	910	2000	316	240	242	212
21	128	128	914	196	428	3600	971	1520	303	590	240	210
22	127	129	779	193	523	2100	1160	1270	293	405	225	218
23	126	132	685	194	489	1470	967	1110	284	338	221	217
24	130	188	612	217	455	1110	855	1010	277	279	217	200
25	130	603	554	378	431	1160	1680	940	272	389	213	189
26 27 28 29 30 31	147 156 151 146 139 139	615 433 362 329 386	504 463 430 398 372 347	622 547 485 439 441 827	405 382 358 	1320 1160 1020 926 846 764	1210 888 905 845 772	866 795 740 698 663 625	275 261 259 252 248	331 284 259 242 232 221	208 211 216 207 201 198	182 183 176 173 171
MEAN	130	198	778	299	882	1103	994	3628	377	264	224	184
MAX	156	615	5340	827	6690	3830	2240	32300	583	590	321	218
MIN	112	128	233	193	347	339	488	579	248	210	195	167
STATIST	ICS OF MOI	NTHLY MEA	N DATA FO	R WATER Y	EARS 2000	0 - 2002,	BY WATER	YEAR (WY)				
MEAN	130	178	471	241	975	619	482	1334	270	188	164	149
MAX	130	198	778	299	1798	1103	994	3628	377	264	224	184
(WY)	2002	2002	2002	2002	2001	2002	2002	2002	2002	2002	2002	2002
MIN	129	158	164	195	269	305	200	160	168	147	121	124
(WY)	2001	2001	2001	2000	2000	2000	2000	2000	2000	2000	2001	2000
SUMMARY	STATISTIC	CS	FOR	2001 CAL	ENDAR YEA	AR	FOR 2002	WATER YEAR	R	WATER YEA	ARS 2000	- 2002
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM INSTANTA 10 PERCE 50 PERCE	MEAN ANNUAL ME ANNUAL ME DAILY MEA DAILY MEA SEVEN-DAY PEAK FLOI PEAK STAC ANEOUS LOI ENT EXCEEI ENT EXCEEI	AN AN N MINIMUM W GE W FLOW DS		18600 103 107  536 193 122	Feb 2 Sep 6, Sep	, 7	758 32300 112 118 43400° 18.89 108 1150 321 133	May 9 Oct 2, Oct 1 May 9 May 9	3 1 9 9	543 758 329 32300 103 107 43400 <sup>a</sup> 18.89 103 889 221 128	Sep Sep	2002 2001 9 2002 6 2001 2 2001 9 2002 9 2002 6 2001

 $<sup>^{\</sup>rm a}$   $\,$  From rating extended above 30,000  $\,{\rm ft^3/s.}$ 

# 06930450 BIG PINEY RIVER AT DEVIL'S ELBOW, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°50'53", long 92°03'44, in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.18, T.36 N., R.10 W., Pulaski County, Hydrologic Unit 10290202, at bridge on County Highway V at Devil's Elbow.

DRAINAGE AREA. -- 746 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1977 to October 1989, November 1992 to currrent year.

DATE	TIME	SAMPLI TYPE	E	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 01	1335	ENVIRONME	ENTAL	181	10.2	102	8.2	360	14.3	190	38.5	23.5	.53
JAN 22	1430	ENVIRONM	ENTAL	234	13.5	110	7.8	308	5.5				
MAR 27	0955	ENVIRONM	ENTAL	2080	10.6	92	7.8	229	8.0				
MAY 20	1215	ENVIRONM	ENTAL	4310	10.5	105	7.8	191	14.9	98	20.7	11.2	.95
JUL 16	1015	ENVIRONME	ENTAL	314	7.4	91	7.9	307	24.1				
SEP 05	1220	ENVIRONM	ENTAL	208	8.9	111	8.3	329	25.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 01 JAN	6.21	180	181	221	0	6.15	E.1	4.8	<10	192	<.04	E.09	.18
22 MAR		149	152	185	0				<10		<.04	E.10	. 59
27 MAY		105	105	129	0				76		<.04	.20	.62
20 JUL	2.53	102	102	124	0	4.13	.1	6.7	23	121	E.02	.30	.41
16 SEP		155	156	190	0				27		<.04	.11	. 26
05		174	174	213	0				<10		<.04	.14	.21
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV	005	- 00	- 01	0.5				1.0	20	2	0.6	-	
01 JAN	<.008	E.03	E.01	<.06	K1	K7	K8	13	22	.3	<.04	<.1	<6
22 MAR	<.008	<.06	<.02	<.06	K35	K2	K1						
27 MAY	<.008	<.06	E.01	E.03	K12	104	52	105					
JUL	.014	<.06	<.02	E.04	K50	220	K208	127	249	.2	E.02	<.1	<6
16 SEP	<.008	<.06	E.01	E.03	K1	25	25						
05	<.008	<.06	.03	E.04	K3	К9	K14						

# 06930450 BIG PINEY RIVER AT DEVIL'S ELBOW, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
01	15	E.06	<1	5.3	<.01	<.3		3
JAN								
22								
MAR								
27								
MAY								
20	103	.94	3	12.7	E.01	<.3		17
JUL								
16								
SEP								
05								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

#### 06930800 GASCONADE RIVER ABOVE JEROME, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $37^{\circ}55^{\circ}12^{\circ}$ , long  $91^{\circ}58^{\circ}33^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.24, T.37 N., R.10 W., Phelps County, Hydrologic Unit 10290203, at bridge on State Highway D at Jerome, 150 ft upstream from Little Piney Creek, and 0.7 mi upstream from gaging station.

DRAINAGE AREA.--2,570  $\min^2$ .

PERIOD OF RECORD. -- January 1978 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: March 1978 to September 1981. WATER TEMPERATURE: March 1978 to September 1981.

REMARKS.--National Stream-Quality Accounting Network station January 1978 to September 1993. Ambient Water-Quality Monitoring Network station November 1993 to current year.

SPECIFIC CONDUCTANCE: Maximum daily, 588 microsiemens per centimeter, Sept. 23, 1981; minimum, 133 microsiemens per centimeter, Sept. 1, 1981.

WATER TEMPERATURE: Maximum daily, 34.0 °C, Aug. 11 and 17, 1980; minimum, 0.0 °C on many days during winter period.

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT												
22 NOV	1310	ENVIRONMENTAL	504	8.7	91	8.0	328	16.0				
19	1200	ENVIRONMENTAL	469	9.4	93	8.1	357	13.1	200	39.2	24.2	.99
DEC 04	1520	ENVIRONMENTAL	1820	9.9	94	8.0	358	12.0				
JAN 28 28	0930 0935	ENVIRONMENTAL BLANK	1630	11.1	94	7.8	356 	6.8	180	35.8 .02	21.8	.96 <.10
FEB 13 MAR	1050	ENVIRONMENTAL	2100	10.7	88	8.0	302	6.7				
26	1347	ENVIRONMENTAL	8780	10.9	93	8.2	242	7.8				
APR 09	1010	ENVIRONMENTAL	2100	9.6	91	8.1	297	12.4				
MAY 20	1450	ENVIRONMENTAL	26100	9.2	94	8.0	191	15.7	97	20.7	10.9	2.27
JUN												
JUL	1325	ENVIRONMENTAL	1670	10.0	121	8.1	298	23.3				
16 16	1215 1216	ENVIRONMENTAL BLANK	729 	7.0	86	7.9	318	24.8	170	33.4 E.01	20.2	1.62 <.10
AUG	1210	DEFINIT								1.01	1.000	1.10
12 12	1010 1011	ENVIRONMENTAL REPLICATE	547 	6.9	85 	8.0	331	24.3				
SEP 03	0950	ENVIRONMENTAL	598	6.6	81	7.8	339	24.4				

# 06930800 GASCONADE RIVER ABOVE JEROME, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	$\begin{array}{c} {\rm NITRO-}\\ {\rm GEN},\\ {\rm NO_2+NO_3}\\ {\rm DIS-}\\ {\rm SOLVED}\\ ({\rm mg/L}\\ {\rm as~N})\\ ({\rm 00631}) \end{array}$
OCT 22		169	169	206	0				<10		<.04	.15	.06
NOV 19	3.75	176	176	215	0	6.75	.1	5.5	12	206	<.04	.13	.06
DEC 04		180	182	222	0				34		<.04	.23	.49
JAN 28 28	3.10 .32	167	169 	206	0	8.61 .48	<.1 <.1	8.0	<10 <10	194 <10	<.04 <.04	.12 <.10	.68 <.05
FEB 13		136	136	166	0				<10		<.04	.13	E1.33
MAR 26		128	130	158	0				54		<.04	.44	.71
APR 09		141	140	171	0				<10		<.04	.16	.38
MAY 20	2.45	112	108	131	0	3.82	<.1	4.6	69	125	.06	.55	.29
JUN 11		146	146	178	0				<10		<.04	.15	.21
JUL 16 16	2.78	158	159 	194	0	5.07 <.30	<.1 <.1	4.4 <.1	10	170 <10	<.04 <.04	.12 <.10	.16 <.05
AUG 12		163	166	202	0				<10		<.04	.14	.15
12 SEP									<10		<.04	.14	.15
03		165	167	204	0				<10		<.04	.15	.11
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 22	GEN, NITRITE DIS- SOLVED (mg/L as N)	PHORUS DIS- SOLVED (mg/L as P)	PHORUS ORTHO, DIS- SOLVED (mg/L as P)	PHORUS TOTAL (mg/L as P)	MTEC MF WATER (col./ 100 mL)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL)	STREP, KF STRP MF, WATER (col./ 100 mL)	INUM, DIS- SOLVED (µg/L as Al)	INUM, TOTAL RECOV- ERABLE (µg/L as Al)	DIS- SOLVED (µg/L as As)	DIS- SOLVED (µg/L as Cd)	WATER UNFLTRD TOTAL (µg/L as Cd)	DIS- SOLVED (µg/L as Cu)
OCT 22 NOV 19	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	MTEC MF WATER (col./ 100 mL) (31633)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	INUM, DIS- SOLVED (µg/L as Al) (01106)	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	DIS- SOLVED (µg/L as As)	DIS- SOLVED (µg/L as Cd)	WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	DIS- SOLVED (µg/L as Cu) (01040)
OCT 22 NOV 19 DEC 04	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	MTEC MF WATER (col./ 100 mL) (31633)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	INUM, DIS- SOLVED (µg/L as A1) (01106)	INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	DIS- SOLVED (µg/L as As) (01000)	DIS- SOLVED (µg/L as Cd) (01025)	WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	DIS- SOLVED (µg/L as Cu) (01040)
OCT 22 NOV 19 DEC 04 JAN 28	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  <.008 <.008 E.004 <.008	PHORUS DIS- SOLVED (mg/L as P) (00666)  <.06 <.06 <.06	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) <.02 <.02 <.02	PHORUS TOTAL (mg/L as P) (00665) <.06 <.06 E.03	MTEC MF WATER (col./ 100 mL) (31633) K3 K4 28	FORM, FECAL, 0.7 0.7 µm-MF (col./ 100 mL) (31625)  K3  K14  37  K3	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) K8 K3 42	INUM, DIS- SOLVED (µg/L as Al) (01106)  13 34	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	DIS- SOLVED (µg/L as As) (01000)  .3 	DIS- SOLVED (µg/L as Cd) (01025)  <.04	WATER UNPITRD TOTAL (µg/L as Cd) (01027)  <.1 <.1	DIS- SOLVED (µg/L as Cu) (01040)  <6  8
OCT 22 NOV 19 DEC 04 JAN 28 28	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  <.008 <.008 E.004 <.008 <.008	PHORUS DIS- SOLVED (mg/L as P) (00666)  <.06 <.06 <.06 <.06 <.06	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) <.02 <.02 <.02 <.02 <.02	PHORUS TOTAL (mg/L as P) (00665)  <.06 <.06 E.03 <.06 <.06 <.06	MTEC MF WATER (col./ 100 mL) (31633) K3 K4 28	FORM, FECAL, 0.7 pm-MF (col./ 100 mL) (31625)  K3  K14  37  K3	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) K8 K3 42 K7	INUM, DIS- SOLVED (µg/L as Al) (01106)	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105) 36	DIS- SOLVED (µg/L as As) (01000)	DIS- SOLVED (µg/L as Cd) (01025)	WATER UNFLTRD TOTAL (µg/L as Cd) (01027)  <.1	DIS- SOLVED (µg/L as Cu) (01040)
OCT 22 NOV 19 DEC 04 JAN 28 28 FEB 13 MAR	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  <.008 <.008 E.004 <.008 <.008 <.008	PHORUS DIS- SOLVED (mg/L as P) (00666)  <.06 <.06 <.06 <.06 <.06 <.06	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) <.02 <.02 <.02 <.02 <.02	PHORUS TOTAL (mg/L as P) (00665)  <.06 <.06 E.03 <.06 <.06 <.06 <.06	MTEC MF WATER (col./ 100 mL) (31633) K3 K4 28 <1  K2	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625) K3 K14 37 K3  K8	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) K8 K3 42 K7  K5	INUM, DIS- SOLVED (µg/L as Al) (01106)  13 34 <1	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  36 79 <2	DIS- SOLVED (µg/L as As) (01000)  .3  .3 <.2	DIS- SOLVED (µg/L as Cd) (01025)  <.04  <.04 <.04	WATER UNFITRD TOTAL (µg/L as Cd) (01027) <.1 <.1 <.1 <.1	DIS- SOLVED (µg/L as Cu) (01040)  <6  8 <6
OCT 22 NOV 19 DEC 04 JAN 28 28 FEB 13 MAR 26	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  <.008 <.008  <.008 <.008 <.008 <.008	PHORUS DIS- SOLVED (mg/L as P) (00666)  <.06 <.06 <.06 <.06 <.06 <.06 <.06	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  <.02 <.02 <.02 <.02 <.02 E.01 E.01	PHORUS TOTAL (mg/L as P) (00665)  <.06 <.06 E.03 <.06 <.06 <.06 .07	MTEC MF WATER (col./ 100 mL) (31633) K3 K4 28 <1  K2 480	FORM, FECAL, 0.7	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) K8 K3 42 K7  K5	INUM, DIS- SOLVED (µg/L as Al) (01106)  13  34 <1	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  36 79 <2	DIS- SOLVED (µg/L as As) (01000)  .3  .3 <.2	DIS- SOLVED (µg/L as Cd) (01025)  <.04  <.04 <.04	WATER UNFITRD TOTAL (µg/L as Cd) (01027)  <.1 <.1 <.1	DIS- SOLVED (µg/L as Cu) (01040)  <6  8 <6
OCT 22 NOV 19 DEC 04 JAN 28 28 FEB 13 MAR 26 APR 09	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  <.008 <.008 E.004 <.008 <.008 .009 <.008	PHORUS DIS- SOLVED (mg/L as P) (00666)  <.06 <.06 <.06 <.06 <.06 <.06 <.06	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	PHORUS TOTAL (mg/L as P) (00665)  <.06 <.06 E.03 <.06 <.06 <.06 <.06 <.06	MTEC MF WATER (col./ 100 mL) (31633)  K3  K4  28  <1  K2  480  K8	FORM, FECAL, 0.7, 100 mL) (31625)  K3  K14  37  K3   K8  420  22	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) K8 K3 42 K7  K5 212 21	INUM, DIS- SOLVED (µg/L as Al) (01106)  13 34 <1	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  36 79 <2	DIS- SOLVED (µg/L as As) (01000)  .3  .3 <.2	DIS- SOLVED (µg/L as Cd) (01025)  <.04  <.04 	WATER UNFITRD TOTAL (µg/L as Cd) (01027) <.1 <.1 <.1 <.1	DIS- SOLVED (µg/L as Cu) (01040) <6 8 <6
OCT 22 NOV 19 DEC 04 JAN 28 28 FBB 13 MAR 26 APR 09 MAY 20 JUN	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  <.008 <.008 E.004 <.008 <.008 <.008 <.008 .009 <.008	PHORUS DIS- SOLVED (mg/L as P) (00666)  <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.0	PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	PHORUS TOTAL (mg/L as P) (00665)  <.06 <.06 E.03 <.06 <.06 <.06 <.06 .13	MTEC MF WATER (col./ 100 mL) (31633) K3 K4 28 <1  K2 480 K8 370	FORM, FECAL, 0.7   pm-MF (col./ 100 mL) (31625)  K3   K14   37   K3     K8   420   22   600	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) K8 K3 42 K7  K5 212 21	INUM, DIS- SOLVED (µg/L as Al) (01106)  13 34 <1 201	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  36 79 <2	DIS- SOLVED (µg/L as As) (01000)  .3  .3 <.2	DIS- SOLVED (µg/L as Cd) (01025)  <.04  <.04 <.04	WATER UNFITRD TOTAL (µg/L as Cd) (01027)  <.1 <.1 <.1	DIS- SOLVED (µg/L as Cu) (01040)  <6  8 <6
OCT 22 NOV 19 DEC 04 JAN 28 28 FEB 13 MAR 26 APR 09 MAY 20 JUN 11 JUL	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008	PHORUS DIS- SOLVED (mg/L as P) (00666)  <.06 <.06 <.06 <.06 <.06 <.06 <.06	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	PHORUS TOTAL (mg/L as P) (00665)  <.06 <.06 E.03 <.06 <.06 <.06 <.06 .13 <.06	MTEC MF WATER (col./ 100 mL) (31633)  K3  K4  28  <1  K2  480  K8	FORM, FECAL, 0.7, 100 mL) (31625)  K3  K14  37  K3   K8  420  22	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)  K8  K3  42  K7   K5  212  21  1550  K10	INUM, DIS- SOLVED (µg/L as Al) (01106)  13 34 <1	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  36  79 <2   556	DIS- SOLVED (µg/L as As) (01000)  .3  .3 <.2   .4	DIS- SOLVED (µg/L as Cd) (01025)  <.04  <.04 <.04   <.04	WATER UNFITRD TOTAL (µg/L as Cd) (01027) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 < <.1 < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < <	DIS- SOLVED (µg/L as Cu) (01040)  <6 8 <6  <6
OCT 22 NOV 19 DEC 044 JAN 28 28 FEB 13 MAR 26 APR 09 MAY 20 JUNN 11	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  <.008 <.008 E.004 <.008 <.008 <.008 <.008 .009 <.008	PHORUS DIS- SOLVED (mg/L as P) (00666)  <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.0	PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	PHORUS TOTAL (mg/L as P) (00665)  <.06 <.06 E.03 <.06 <.06 <.06 <.06 .13	MTEC MF WATER (col./100 mL) (31633)  K3  K4  28  <1  K2  480  K8  370  K2	FORM, FECAL, 0.7 pm-MF (col./ 100 mL) (31625)  K3  K14  37  K3   K8  420  22  600  K11	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) K8 K3 42 K7  K5 212 21	INUM, DIS- SOLVED (µg/L as Al) (01106)  13 34 <1 201	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  36 79 <2 556	DIS- SOLVED (µg/L as As) (01000)  .3  .3 <.2   .4	DIS- SOLVED (µg/L as Cd) (01025)  <.04  <.04 <.04   <.04	WATER UNFLTRD TOTAL (µg/L as Cd) (01027) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 < <- <- <- Cd>	DIS- SOLVED (µg/L as Cu) (01040)  <6 8 <6 <6 <6
OCT 22 NOV 19 DEC 04 JAN 28 FEB 13 MAR 26 APR 09 MAY 20 JUN 11 JUL 16	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008	PHORUS DIS- SOLVED (mg/L as P) (00666)  <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.0	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	PHORUS TOTAL (mg/L as P) (00665)  <.06 <.06 E.03 <.06 <.06 <.06 <.06 .07 <.06 .13 <.06 <.06	MTEC MF WATER (col./ 100 mL) (31633)  K3  K4  28  <1  K2  480  K8  370  K2  K1	FORM, FECAL, 0.7   pm-MF (col./ 100 mL) (31625)  K3   K14   37   K3     K8   420   22   600   K11   K6	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) K8 K3 42 K7  K5 212 21 1550 K10 185	INUM, DIS- SOLVED (µg/L as Al) (01106)  13 34 <1 201 1	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  36 79 <2 556 59	DIS- SOLVED (µg/L as As) (01000) 3345	DIS- SOLVED (µg/L as Cd) (01025)  <.04 <.04 <.04 <.04 <.04 <.04	WATER UNFITRD TOTAL (µg/L as Cd) (01027) <.1 <.1 <.1 <.1 <.1 <.1	DIS- SOLVED (µg/L as Cu) (01040)  <6 8 <6 <6 <6 <6

# 06930800 GASCONADE RIVER ABOVE JEROME, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
OCT								
22								
NOV								
19	17	E.04	<1	8.1	<.01	<.3		4
DEC								
04 JAN								
28	17	<.08	<1	5.0	<.01	<.3		3
28	<10	<.08	<1	<2.0	<.01	<.3	2	<1
FEB								
13								
MAR								
26								
APR 09								
MAY								
20	136	.73	3	12.0	E.01	<.3		11
JUN								
11								
JUL	.10	. 00	.,	7.0	. 01	. 2	.1	-
16	<10	<.08	M	7.2 <2.0	<.01 <.01	<.3	<1	1 <1
16 AUG	<10	<.08	<1	<2.0	<.U1	E.2	<1	<t< td=""></t<>
12								
12								
SEP								
03								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### 06932000 LITTLE PINEY CREEK AT NEWBURG, MO

LOCATION.--Lat 37°54'35", long 91°54'12", in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.22, T.37 N., R.9 W., Phelps County, Hydrologic Unit 10290203, on downstream side of bridge on State Highway P and T at Newburg, and 2 mi upstream from Mill Creek.

DRAINAGE AREA.--200 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 693.40 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1951, all gages at datum 3.0 ft higher. Prior to Nov. 21, 1963, nonrecording gage at site 100 ft downstream; Nov. 21, 1963 to May 9, 1966, nonrecording gage at present site.

REMARKS.--Records good. U.S.G.S satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 16.7 ft, Aug. 20, 1915, from floodmark, present datum; discharge, 30,000  ${\rm ft}^3/{\rm s}$ , from rating curve based on discharge measurements made in 1935 and extended above 25,000  ${\rm ft}^3/{\rm s}$ .

		DISCHARGE	, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	35 35 34 35 50	38 44 41 38 37	135 105 89 79 72	78 74 71 71 69	1080 466 334 254 210	69 447 327 224 196	166 159 145 136 129	371 338 317 292 266	229 208 189 178 181	104 117 121 116 107	68 68 65 64 63	64 64 62 61
6 7 8 9 10	45 39 37 36 56	39 40 40 39 38	67 63 59 55 52	69 65 64 64 63	182 162 147 136 127	197 177 162 200 182	124 121 147 166 154	255 786 4570 2220 1010	162 151 143 143 150	103 99 97 91 90	64 63 61 60 61	60 60 60 59
11 12 13 14 15	55 52 48 48 46	38 38 38 38 38	50 66 121 110 102	60 59 58 57 55	116 110 105 100 97	171 176 165 156 158	145 140 135 135 133	726 2120 5590 1520 987	149 144 302 199 172	91 90 85 85 84	64 66 113 96 76	59 58 57 58 59
16 17 18 19 20	50 45 43 41 41	38 37 37 36 35	453 975 447 280 207	54 53 53 55 53	92 89 85 90 93	178 166 154 381 519	130 134 128 1590 3110	1120 6980 3420 1640 1240	155 145 139 134 128	83 82 81 81	72 71 191 102 186	59 64 62 66 96
21 22 23 24 25	41 40 68 128 59	35 36 37 103 76	173 155 137 123 113	53 51 54 66 66	87 83 81 78 78	323 247 215 196 704	981 588 425 351 362	1020 857 735 657 574	124 122 119 117 117	78 77 73 73 73	93 81 80 79 75	70 63 60 59 59
26 27 28 29 30 31	48 43 41 40 39 38	61 53 58 114 257	107 101 96 91 85 81	65 63 61 62 259 1760	74 72 70 	430 313 262 230 200 180	428 400 446 474 409	483 421 366 322 281 253	121 114 111 109 107	72 71 70 70 70 70	71 69 67 66 66 65	59 60 58 58 56
MEAN MAX MIN IN.	47.0 128 34 0.27	53.2 257 35 0.30	156 975 50 0.90	123 1760 51 0.71	168 1080 70 0.87	248 704 69 1.43	403 3110 121 2.25	1346 6980 253 7.76	152 302 107 0.85	86.6 121 70 0.50	80.2 191 60 0.46	61.7 96 56 0.34
MEAN MAX (WY) MIN (WY)	97.3 913 1950 26.9 1957	138 694 1994 33.1	151 1300 1983 35.7 1956	151 770 1950 34.9 1956	179 678 1985 35.6 1934	236 822 1945 42.8 1956	271 1335 1945 42.0 1956	276 1346 2002 43.7 1932	200 1545 1935 32.2 1934	107 684 1998 27.6 1934	82.3 493 1946 27.6 1936	86.8 706 1993 28.1 1954
SUMMARY	STATISTIC	CS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002	WATER YEA	ıR.	WATER YE	ARS 1929	- 2002
LOWEST A HIGHEST LOWEST DANNUAL S MAXIMUM MAXIMUM INSTANTA ANNUAL D 10 PERCE 50 PERCE	MEAN ANNUAL ME ANNUAL ME DAILY MEA DAILY MEA DAILY MEA PEAK FLOI PEAK STA ANEOUS LOI RUNOFF (II ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS		3520 34 35   7.91 173 74 37	Apr Sep Sep	4	6980 34 36 14000 13.44 16.65 429 90 41	May 1 Oct Nov 1 Apr 1 Apr 1	3 .7 .9 .9	164 391 47.0 19600 24 24 32500 16.60 24 11.15 286 87 43	1936,195 Aug 2 Aug 1	22 1936 14 1946 17 1985

#### 06933500 GASCONADE RIVER AT JEROME, MO

LOCATION.--Lat  $37^{\circ}55^{\circ}47^{\circ}$ , long  $91^{\circ}58^{\circ}38^{\circ}$ , in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec.13, T.37 N., R.10 W., Phelps County, Hydrologic Unit 10290203, on left bank at Jerome, 0.5 mi downstream from Little Piney Creek, and at mile 107.

DRAINAGE AREA. -- 2,840 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1903 to July 1906, January 1923 to current year. April 1903 to July 1906 published as "at Arlington". October to December 1922 monthly discharge only, published in WSP 1310. Gage-height records collected intermittently in the vicinity 1885-1926 and at same site since 1938 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 172: 1904. WSP 566: Drainage area. WSP 1340: 1903-04, 1928(M).

GAGE.--Water-stage recorder. Datum of gage is 657.64 ft above National Geodetic Vertical Datum of 1929. Prior to July 26, 1904, nonrecording gage at site 0.8 mi downstream at different datum; July 26, 1904, to July 21, 1906, nonrecording gage at site 0.5 mi upstream from present site at datum about 0.85 ft higher than present gage; Jan. 3, 1923, to Sept. 29, 1928, nonrecording gage at site 400 ft downstream from present site at datum 0.14 ft lower than present datum; Sept. 30, 1928, to Jan. 17, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. National Weather Service gage-height and U.S.G.S. satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Jan. 6, 1897, reached a stage of about 29.0 ft, discharge, 120,000 ft $^3$ /s. A stage of 28.6 ft was reached on Aug. 20 and 22, 1915, discharge, 114,000 ft $^3$ /s.

		DISCHA	RGE, CUBI	C FEET PE		WATER Y		BER 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	515	1560	1230	17200	1210	3630	3540	2560	844	635	649
2	379	528	1810	1130	22600	2270	3250	3460	2380	822	618	618
3	376	530	1750	1040	17700	3290	2870	3160	2210	882	602	594
4	375	529	1840	968	8550	4510	2570	2850	2080	866	592	571
5	475	527	1580	924	6100	4860	2340	2570	2100	818	585	553
6	484	523	1360	921	4850	4160	2200	2360	2050	798	567	533
7	456	519	1190	881	4050	3720	2090	3620	2010	778	553	520
8	439	512	1070	836	3450	3490	2090	16800	1850	766	556	517
9	426	509	974	812	3030	3400	3530	39400	1790	748	559	518
10	581	500	902	795	2730	3700	6220	47000	1740	734	545	494
11	750	493	835	768	2440	4270	6250	43400	1680	741	548	483
12	1040	489	865	749	2250	3980	4810	21100	1630	744	546	471
13	737	484	1120	732	2090	3960	4000	32400	2390	773	665	460
14	635	482	1160	720	1920	3770	3810	37000	1890	747	657	453
15	591	479	1350	698	1760	3500	5850	25400	1990	748	617	454
16	e560	475	2910	681	1630	3300	5450	11800	1920	727	671	455
17	535	469	7980	672	1500	3520	4630	20000	1750	701	725	484
18	523	465	16800	662	1400	3530	4250	34800	1580	712	823	483
19	517	465	16000	671	1360	3890	5760	34500	1440	739	771	489
20	515	457	10400	657	1360	7440	14800	25400	1330	722	861	548
21	511	452	6040	654	1330	13000	7780	11200	1250	870	753	539
22	507	447	4540	645	1420	11900	6180	8050	1170	973	699	535
23	527	478	3620	645	1480	7570	6520	6550	1090	924	693	535
24	1050	712	3010	690	1530	5830	5340	5710	1050	964	681	525
25	628	725	2570	718	1480	6350	4880	5280	1000	910	689	505
26 27 28 29 30 31	541 531 526 520 517 513	1190 966 923 1160 1720	2280 2030 1790 1600 1440 1330	1030 1250 1610 1610 2010 6670	1410 1330 1260 	8540 9370 7190 5810 4910 4210	4600 4200 4040 4290 4000	4590 4060 3610 3250 3020 2770	1010 949 911 890 865	e971 e890 e800 710 683 661	665 631 618 614 646 659	539 560 553 533 516
MEAN	553	624	3345	1099	4258	5176	4741	15120	1618	799	647	523
MAX	1050	1720	16800	6670	22600	13000	14800	47000	2560	973	861	649
MIN	375	447	835	645	1260	1210	2090	2360	865	661	545	453
IN.	0.22	0.25	1.36	0.45	1.56	2.10	1.86	6.14	0.64	0.32	0.26	0.21
MEAN	1372	2307	2474	2406	3012	4045	4622	4439	3013	1526	1165	1257
MAX	10390	10400	17740	10980	11540	13110	20450	15390	18500	10730	9244	12580
(WY)	1950	1994	1983	1950	1985	1945	1945	1990	1935	1951	1927	1993
MIN	289	368	392	368	491	597	504	532	518	339	324	293
(WY)	1957	1957	1956	1956	1964	1956	1956	2000	1934	1934	1936	1956
SUMMARY	Y STATIST	ICS	FOR	2001 CALE	NDAR YEAR		FOR 2002	WATER YEAR		FOR P	ERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM INSTANT ANNUAL 10 PERC	MEAN  T ANNUAL M ANNUAL M T DAILY ME DAILY ME SEVEN-DAY M PEAK FIC M PEAK STA FANEOUS LC RUNOFF (1) CENT EXCER CENT EXCER CENT EXCER	EAN EAN AN Y MINIMUM OW AGE DW FLOW INCHES) EDS		28000 375 380  6.74 2170 799 431	Feb 26 Oct 4 Sep 1		3214 47000 375 418 51700 21.14 371 15.37 6290 1040 510	May 10 Oct 4 Oct 1 May 10 May 10 Oct 4,5		2624 6491 544 121000 259 266 136000 31.34 254 12.55 5470 1230 514	Sep Sep Dec Dec	1985 1954 5 1982 21 1956 16 1956 5 1982 5 1982 21 1956

e Estimated

#### 06934000 GASCONADE RIVER NEAR RICH FOUNTAIN, MO

LOCATION.--Lat  $38^{\circ}23^{\circ}20^{\circ}$ , long  $91^{\circ}49^{\circ}15^{\circ}$ , in SE  $\frac{1}{4}$  sec.16, T.41 N., R.8 W., Osage County, Hydrologic Unit 10290203, on downstream side of State Highway 89 bridge, 100 ft downstream from Brush Creek Slough, 800 ft upstream from Swan Creek, and 4 mi east of Rich Fountain.

DRAINAGE AREA.--3,180  $\mathrm{mi}^2$  (by U.S. Army Corps of Engineers).

PERIOD OF RECORD.--Nov. 1, 1921 to Sept. 30, 1959, Oct. 1, 1986 to current year. Annual peaks only for water years 1959 to 1986.

GAGE.--Water-stage recorder. Datum of gage 553.70 ft above National Geodetic Vertical Datum of 1929. From Oct. 10, 1921, to Sept. 13, 1932, chain gage on former bridge, 50 ft downstream; Sept. 14, 1932, to Mar. 9, 1934, wire-weight gage on former bridge; Mar. 10, 1934, to Aug. 26, 1956, water-stage recorder on former bridge; Aug. 26, 1956, to May 11, 1966, gage readings were obtained by measuring from a reference point on present bridge; May 11, 1966, to Oct. 31, 1986, Type-A wire-weight gage on present bridge. All gages have been maintained at present datum.

REMARKS.--Records good. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHA	RGE, CUBIC	C FEET PER		WATER YE Y MEAN V	EAR OCTOBEF ALUES	R 2001 TC	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	565	2600	1520	13700	1480	4600	3840	3060	1020	761	745
2	430	599	2040	1410	19800	2590	4060	3450	2830	1010	734	736
3	424	613	2070	1340	22100	4550	3650	3330	2630	1000	718	714
4	423	614	1990	1280	15100	4450	3240	3010	2450	1060	703	680
5	496	596	2000	1170	7900	5370	2940	2710	2540	1040	681	654
6	518	580	1780	1130	6160	5410	2690	2460	2490	964	658	631
7	523	567	1580	1110	5110	4670	2500	2960	2350	925	643	604
8	496	558	1410	1070	4350	4220	2490	13600	2230	894	616	588
9	481	548	1270	1020	3780	4160	2620	27100	2090	864	613	583
10	861	540	1160	997	3360	4060	4680	39000	2080	847	620	586
11	834	525	1070	970	3010	4570	6950	47900	2210	830	606	566
12	877	522	1120	937	2710	4650	6070	45400	2990	846	611	551
13	1200	518	1980	912	2480	4420	4950	34700	2360	837	687	540
14	961	516	1970	888	2270	4420	4350	35100	2730	861	778	534
15	820	509	1820	867	2100	4140	4450	37400	2110	815	773	532
16	779	504	3470	844	1960	4170	6360	26200	2160	821	707	535
17	744	502	9000	824	1830	3850	5260	20200	2040	802	738	549
18	686	497	11700	811	1720	4040	4200	28600	1880	778	3670	558
19	641	497	16800	811	1640	4330	4280	35000	1730	974	2100	567
20	611	490	14900	804	1640	6370	17000	36300	1620	850	2020	596
21	596	486	8230	789	1620	10300	16400	24600	1520	828	1190	613
22	583	477	5520	778	1580	13000	7840	10500	1440	928	992	607
23	634	473	4330	772	1660	10300	6670	7970	1360	1140	924	596
24	1480	1240	3590	792	1710	7280	6210	7080	1290	1070	878	596
25	1820	1360	3060	832	1730	6580	5000	6230	1240	1100	847	591
26 27 28 29 30 31	1040 791 694 655 614 586	1040 1320 1190 1190 3140	2670 2380 2150 1950 1790 1640	866 1160 1410 1710 2600 9970	1690 1610 1530 	7790 9610 9020 7370 6150 5300	4810 4680 4780 4280 4280	5580 4850 4330 4060 3690 3340	1200 1200 1150 1100 1060	1040 1090 983 890 830 793	828 803 761 731 718 733	575 588 624 618 606
MEAN	733	759	3840	1368	4852	5762	5410	17110	1971	927	930	602
MAX	1820	3140	16800	9970	22100	13000	17000	47900	3060	1140	3670	745
MIN	423	473	1070	772	1530	1480	2490	2460	1060	778	606	532
IN.	0.27	0.27	1.39	0.50	1.59	2.09	1.90	6.21	0.69	0.34	0.34	0.21
MEAN	1638	2449	2505	2842	3305	4551	5585	5424	3736	1788	1345	1387
MAX	12060	12230	12750	12700	7637	14640	22720	18300	19810	12630	9365	15330
(WY)	1950	1994	1988	1950	1949	1945	1945	1990	1935	1951	1927	1993
MIN	288	394	403	374	558	620	531	670	647	385	334	295
(WY)	1957	1957	1956	1956	1954	1956	1956	2000	1934	1954	1936	1954
SUMMARY	STATISTI	ICS	FOR	R 2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	FOR P	ERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANTANNUAL 10 PERC 50 PERC	MEAN  ANNUAL ME ANNUAL ME DAILY ME DAILY ME DAILY ME DAILY ME CONTENS  CONTENS  CONTENS  MEAN  M	EAN EAN AN MINIMUM OW AGE OW FLOW INCHES) EDS		27300 395 403  7.20 2860 988 475	Feb Sep Aug	1	47900 423 464 49500 22.17 414 15.78 7540 1360 572	May Oct Oct May May Oct	4 1 11 11	3042 6560 629 101000 275 279 134000 33.27 275 13.00 6420 1460 562	Sep Oct Dec Dec	1927 1954 28 1993 19 1954 6 1956 6 1982 6 1982 19 1954

### MISSOURI RIVER MAIN STEM 235

### 06934500 MISSOURI RIVER AT HERMANN, MO

LOCATION.--Lat  $38^{\circ}42^{\circ}36^{\circ}$ , long  $91^{\circ}26^{\circ}21^{\circ}$ , in SW  $\frac{1}{4}$  sec.25, T.46 N., R.5 W., Montgomery County, Hydrologic Unit 10300200, on downstream side of third pier from right abutment of bridge on State Highway 19 at Hermann, and at mile 97.9.

DRAINAGE AREA.--522,500  $\mathrm{mi}^2$ . The 3,959  $\mathrm{mi}^2$  in Great Divide basin are not included.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1897 to current year. Prior to August 1928 monthly discharge only published in WSP 1310. Gage-height records 1873-99 collected at site 480 ft downstream are contained in reports of Missouri River Commission; since 1900 in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area, WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 481.56 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 26, 1930, nonrecording gage at site 480 ft downstream at datum 0.07 ft lower; Sept. 26, 1930, to Mar. 27, 1932, nonrecording gage; Mar. 28, 1932, to June 12, 1945, water-stage recorder; June 13, 1945, to Apr. 2, 1946, May 13 to Sept. 30, 1978, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1844 reached a stage of 35.5 ft, discharge, about  $700,000 \text{ ft}^3/\text{s}$ , computed by the U.S. Army Corps of Engineers.

	1 1	DISCH	ARGE, CUB	IC FEET P		, WATER Y LY MEAN V		BER 2001 T	O SEPTEMB	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	57100 55600 54200 54000 56500	47100 46100 47000 45800 44200	52500 50400 47600 46200 45900	34900 35700 35000 36400 36600	119000 104000 92000 83300 71400	45200 44800 47500 41700 42900	48000 45400 46000 50600 50200	115000 97500 95800 87500 71500	109000 108000 106000 105000 104000	53900 51700 48700 47400 47200	40300 42600 42500 39700 37900	46200 44200 42800 42000 41700
6 7 8 9 10	57400 61300 60800 54600 61400	43700 44800 47000 45600 44400	44600 41600 39500 37800 36300	37900 34200 33000 35300 35000	61900 53200 51100 48600 47100	47300 46600 41200 38500 38200	49600 47100 45400 47600 49100	61400 104000 225000 285000 299000	104000 105000 105000 105000 103000	48900 47800 45900 44700 52000	36600 35800 35500 35000 34900	41300 41300 44500 45500 42700
11 12 13 14 15	81000 76100 68700 62600 52700	43700 43600 43200 43300 44100	35600 36300 40400 40500 40100	34900 31100 29900 30000 30500	38300 37100 42300 45600 46000	38300 39400 41400 40500 39300	49100 54100 57100 53200 50400	282000 269000 324000 345000 332000	98600 113000 153000 146000 130000	56600 55400 54700 52200 48600	35100 35600 37500 39400 41600	46700 47900 42000 40200 39500
16 17 18 19 20	53300 66300 69500 75000 68700	43400 43100 42700 42400 42100	41300 54500 57500 56400 56700	30400 30100 30500 31400 32700	46300 44300 38400 37400 43100	37500 36400 35600 36600 42500	52100 54400 51500 49500 66300	315000 282000 260000 209000 170000	114000 109000 107000 100000 94800	47800 52300 47800 48200 48800	39000 38100 41500 59700 57000	39300 39600 39900 40700 41400
21 22 23 24 25		41800 41900 42400 47500 47200	58300 51200 42800 39000 37300	34000 33300 34500 34100 33900	44400 48100 54800 53500 44700	48000 53700 59000 51500 44500	90400 90100 94900 104000 83900	155000 143000 121000 116000 126000	92200 90300 88600 86700 82700	48300 44300 42800 47900 45900	55500 49600 50000 51400 51800	42200 42000 41000 40000 39500
26 27 28 29 30 31	49100 48600 48500 47500 47300 50400	45200 44700 45600 46500 50200	37100 37000 37100 37800 36800 35500	35700 35100 33400 32200 33800 75700	40900 42500 45400 	45900 54300 56900 54600 53000 50900	70800 72400 102000 121000 128000	132000 157000 156000 140000 128000 115000	79300 79200 78400 68600 57500	41300 39500 42500 44500 44400 40200	49400 48000 56700 59800 52600 48700	39700 40000 38900 38000 37700
MEAN MAX MIN IN.	57830 81000 47300 0.13	44680 50200 41800 0.10	43600 58300 35500 0.10	75700 29900 0.08	54450 119000 37100 0.11	44960 59000 35600 0.10	65810 128000 45400 0.14	345000		47810 56600 39500 0.11	44480 59800 34900 0.10	41610 47900 37700 0.09
MEAN MAX (WY) MIN (WY)	79440 286700 1987 36680 1964	79450 174800 1999 29400	63400	50980 129000 1973 17350 1963	68980	97540 267500 1973 22810 1964	122100 333400 1973 45800 1963	123600 313000 1995 47710 1989	121400 282300 1995 46150 1988	101000 376300 1993 44010 1988	74830 306600 1993 39540 1991	76580 243500 1993 37800 1963
SUMMAR	Y STATIST	rics	FOR	2001 CAL	ENDAR YEAI	3	FOR 2002	WATER YEAR	R	WATER Y	EARS 1958	3 - 2002 <sup>a</sup>
ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN ANNUAL 10 PER 50 PER	MEAN T ANNUAL MANUAL MA	MEAN MEAN MEAN MEAN MEAN MEAN MEAN MEAN	ч	87020  346000 25500 26300 2.25 154000 69700 37100	Jun 1 Jan 1 Jan 1	3 1 1	345000 29900 30400 348000 29.93 29700 1.65 107000 47500 36100	May 1. Jan 1 Jan 1 May 1. May 1. Jan 13,1	4 3 3 2 4 4 4 4	87400 181800 44988 739000 6210 7400 750000 36.97 602 2.27 164000 36800	Jul Dec	1993 1963 31 1993 23 1963 20 1963 31 1993 31 1993 23 1963

<sup>&</sup>lt;sup>a</sup> Post-regulation period.

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#### 06934500 MISSOURI RIVER AT HERMANN, MO--Continued (National Stream-Quality Accounting Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to current year.

PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: October 1974 to September 1996.
WATER TEMPERATURE: October 1974 to September 1996.
DISSOLVED OXYGEN: June 1984 to September 1984, April 1985 to September 1985, April 1986 to September 1986.

INSTRUMENTATION.--Water-quality monitor, June 1984 to September 1984, April 1985 to September 1985, April 1986 to September 1986.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: (water years 1976 to 1996): Maximum daily, 2,150 microsiemens per centimeter, Dec. 9, 1978; minimum daily, 205 microsiemens per centimeter, Apr. 16, 1979.

WATER TEMPERATURE: (water years 1976 to 1996): Maximum daily, 32.5 °C, July 31, 1987; minimum daily, 0.0 °C on many days during winter period.

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	TURBID- ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB- ANCE 254 NM, WTR FLT (units /cm) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (units /cm) (61726)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)
OCT												
16 DEC	1025	ENVIRONMENTAL	51600	32	.086	.062	11.3	113	8.2	729	15.1	240
04	1030	ENVIRONMENTAL	46300	26	.071	.051	10.6	93	8.1	696	9.1	230
JAN 25	1205	ENVIRONMENTAL	33800	14	.060	.040	12.8	101	8.1	664	4.3	250
FEB 22	1115	ENVIRONMENTAL	47400	27	.068	.046	12.9	107	8.2	613	6.3	220
MAR 13	1020	ENVIRONMENTAL	41600	80	.077	.053	12.2	102	8.1	615	6.9	230
APR												
02	1125	ENVIRONMENTAL	45200	33	.068	.049	11.3	103	8.3	658	10.1	220
02	1135	REPLICATE		32	.068	.049						230
22	1220	ENVIRONMENTAL	89900	120	.178	.135	7.3	78	8.0	456	17.6	170
24	1055	ENVIRONMENTAL	106000	470	.153	.113	6.4	68	7.9	502	17.1	180
MAY												
07	0955	ENVIRONMENTAL	88900	170	.125	.092	8.0	86	8.1	560	18.2	200
10	1110	ENVIRONMENTAL	304000	700	.214	.164	5.2	55	7.8	292	17.8	110
22	1115	ENVIRONMENTAL	145000	140	.127	.094	7.2	77	8.1	375	17.4	160
JUN												
04	1015	ENVIRONMENTAL	105000	66	.116	.084	7.3	89	8.1	476	24.3	180
JUL												
09	1010	ENVIRONMENTAL	44400	24	.080	.057	7.7	105	8.3	711	30.3	230
09	1018	BLANK										
AUG												
13	1030	ENVIRONMENTAL	37500	19	.071	.050	6.2	81	8.4	773	27.5	240
13	1038	BLANK			<.004	<.004						
SEP												
10	0940	ENVIRONMENTAL	42500	24	.080	.057	7.2	93	8.2	715	27.6	230
10	0950	REPLICATE		22	.080	.056						230

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# 06934500 MISSOURI RIVER AT HERMANN, MO--Continued (National Stream-Quality Accounting Network)

DATE	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ALKA- LINITY WAT DIS FIX END FIELD (mg/L as CaCO <sub>3</sub> ) (39036)	ALKA- LINITY WAT DIS TOT IT FIELD (mg/L as CaCO <sub>3</sub> ) (39086)	BICAR- BONATE WATER DIS IT FIELD (mg/L as HCO <sub>3</sub> ) (00453)	CAR- BONATE WATER DIS IT FIELD (mg/L as CO <sub>3</sub> ) (00452)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO <sub>2</sub> ) (00955)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)
OCT 16	60.2	21.1	7.15	59.5	159	161	197	0	22.9	. 4	9.11	174	486
DEC 04	58.3	21.4	5.52	57.7	169	169	206	0	23.2	. 4	10.7	151	468
JAN 25	65.6	21.0	5.60	49.1	187	190	232	0	28.9	.5	15.0	131	464
FEB 22	58.1	17.9	4.78	39.8	168	169	206	0	24.5	.3	12.7	101	380
MAR 13	59.6	19.2	4.88	39.7	182	182	222	0	24.0	.3	10.1	104	402
APR 02	56.9	19.8	5.24	47.2	170	170	195	6	23.4	. 4	11.8	136	441
02 22 24	58.4 43.4 45.6	20.1 15.9 15.3	5.28 4.66 4.90	50.2 31.8 34.5	132 129	132 129	161 158	0 0	23.0 15.6 17.4	.4 .3 .3	12.2 8.73 8.86	129 85.3 91.5	423 298 315
MAY 07 10	51.8 31.1	16.9 8.83	4.86 4.24	37.4 12.5	154 105	151 104	185 127	0	18.1 8.69	.2	7.27 7.29	109 34.5	363 176
22 JUN	41.6	13.0	4.05	17.5	120	121	147	0	10.5	.2	8.00	52.7	240
04 JUL	47.6	13.8	4.37	26.8	135	134	165	0	14.7	.3	6.53	77.5	298
09	57.8 <.01	20.3	5.78 	54.1 <.09	176 	175 	197 	8	21.4	. 4	5.53 <.13	152 	441
AUG 13 13	58.0	22.6	5.72	73.1	172	173	184	13	22.0	.5	3.38	188	497
SEP 10 10	56.4 56.3	21.5 21.4	6.01 6.05	61.6 61.3	157 	158	193	0	19.0 18.8	.5 .5	6.84 6.83	166 165	462 457
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	NITRO- GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)
OCT 16	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)	GEN, NITRITE DIS- SOLVED (mg/L as N)	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N)	PHORUS DIS- SOLVED (mg/L as P)	PHORUS ORTHO, DIS- SOLVED (mg/L as P)	PHORUS TOTAL (mg/L as P)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C)	INOR- GANIC, PARTIC. TOTAL (mg/L as C)	ORGANIC DIS- SOLVED (mg/L as C)	ORGANIC PARTIC- ULATE TOTAL (mg/L as C)
OCT 16 DEC 04	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	ORGANIC DIS- SOLVED (mg/L as C) (00681)	ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)
OCT 16 DEC 04 JAN 25	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, $NO_2+NO_3$ DIS-SOLVED (mg/L as N) (00631)	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	ORGANIC DIS- SOLVED (mg/L as C) (00681)	ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)
OCT 16 DEC 04 JAN 25 FEB 22	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608) <.04 <.04	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, $NO_2+NO_3$ DIS-SOLVED (mg/L as N) (00631)	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  E.004	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	ORGANIC DIS- SOLVED (mg/L as C) (00681) 4.3	ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)  3.8 2.5
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .06	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .76 .48	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .45 .84 1.55	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  E.004  E.005	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .47 .17	PHORUS DIS- SOLVED (mg/L as P) (00666) .103 .086	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .090	PHORUS TOTAL (mg/L as P) (00665) .23 .168	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694) 3.8 2.5	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688) <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681) 4.3 3.0	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)  3.8 2.5 1.6
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .06 <.04 <.04 <.04 <.04 <.04 E.04	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .27 .30 .13 .27 .23 .22 .21 .45	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .76 .48 .50 .43 .65 .59 .55 1.2	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .45 .84 1.55 1.24 1.06 1.36 1.27 .64	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  E.004  E.005 .008 .009 .022  E.007 E.007 E.005 .014	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .47 .17 .18 .05 .36 .35 .24 .58	PHORUS DIS- SOLVED (mg/L as P) (00666)  .103 .086 .100 .084 .059 .091 .087	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .090 .079 .092 .071 .034 .080 .077 .079	PHORUS TOTAL (mg/L as P) (00665)  .23  .168  .150  .158  .23  .189  .177  .32	INORG + ORGANIC PARTIC. TOTAL (mg/L as c) (00694)  3.8 2.5 1.6 .5 3.4 2.6 2.6 2.4 5.8	INOR- GANIC, PARTIC. TOTAL (mg/L as c) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681)  4.3 3.0 3.1 3.0 3.9 3.1 5.9	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)  3.8 2.5 1.6 .4 3.4 2.5 2.3 5.7
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 22 24 MAY 07 10 22	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .27 .30 .13 .27 .23 .22 .21	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .76 .48 .50 .43 .65 .59 .55	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .45 .84 1.55 1.24 1.06 1.36 1.27	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  E.004  E.005 .008 .009 .022 E.007 E.005	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .47 .17 .18 .05 .36 .35 .24	PHORUS DIS- SOLVED (mg/L as P) (00666)  .103 .086 .100 .084 .059 .091	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .090 .079 .092 .071 .034	PHORUS TOTAL (mg/L as P) (00665)  .23  .168  .150  .158  .23  .189  .177	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.8 2.5 1.6 .5 3.4 2.6 2.4	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688) <.1 <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681) 4.3 3.0 3.1 3.0 3.1 3.0	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)  3.8 2.5 1.6 .4 3.4 2.5 2.5
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 22 24 MAY 07 10 22 JUN 04	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + OORGANIC DIS. (mg/L as N) (00623)  .27 .30 .13 .27 .23 .22 .21 .45 .50 .35	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .76 .48 .50 .43 .65 .59 .55 1.2 1.9 1.2 3.0	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .45 .84 1.55 1.24 1.06 1.36 1.27 .64 1.16	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  E.004  E.005 .008 .009 .022  E.007 E.005 .014 .041 .011 .058	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .47 .17 .18 .05 .36 .35 .24 .58 .90 .64 1.36	PHORUS DIS- SOLVED (mg/L as P) (00666)  .103 .086 .100 .084 .059 .091 .087 .097 .084 .082 .085	PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)  .090 .079 .092 .071 .034 .080 .077 .079 .069 .066	PHORUS TOTAL (mg/L as P) (00665)  .23  .168  .150  .158  .23  .189  .177  .32  .83  .36  1.11	INORG + ORGANIC PARTIC. TOTAL (mg/L as c) (00694)  3.8 2.5 1.6 .5 3.4 2.6 2.4 5.8 8.3 6.6 12.1	INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681)  4.3 3.0 3.1 3.0 3.9 3.1 5.9 5.4 4.6 6.5	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)  3.8 2.5 1.6 .4 3.4 2.5 2.3 5.7 8.2 6.5 11.7
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 22 24 MAY 07 10 22 JUN 04 JUL 09 09	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .06 <.04 <.04 <.04 .004 <.04 .004 <.04 .004 .0	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .27 .30 .13 .27 .23 .22 .21 .45 .50 .35 .53	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .76 .48 .50 .43 .65 .59 .55 1.2 1.9 1.2 3.0 1.0	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .45 .84 1.55 1.24 1.06 1.36 1.27 .64 1.16 .94 1.15 1.40	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  E.004  E.005 .008 .009 .022  E.007 E.005 .014 .041 .058 .030	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .47 .17 .18 .05 .36 .35 .24 .58 .90 .64 1.36 .23	PHORUS DIS- SOLVED (mg/L as P) (00666)  .103 .086 .100 .084 .059 .091 .087 .097 .084 .082 .085 .078	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .090 .079 .092 .071 .034 .080 .077 .079 .069	PHORUS TOTAL (mg/L as P) (00665)  .23     .168     .150     .158     .23     .189     .177     .32     .83     .36 1.11     .36	INORG + ORGANIC PARTIC. TOTAL (mg/L as c) (00694)  3.8 2.5 1.6 .5 3.4 2.6 2.4 5.8 8.3 6.6 12.1 4.1	INOR-GANIC, PARTIC. TOTAL (mg/L as c) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681)  4.3 3.0 3.1 3.0 3.9 3.1 5.9 5.4 4.6 6.5 4.3	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)  3.8 2.5 1.6 .4 3.4 2.5 2.3 5.7 8.2 6.5 11.7 4.1
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 22 24 MAY 07 10 11 JUN 04 JUL 09	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 E.04 .04 <.04 <.04 <.04 <.04 <.04 <.04 <.	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .27 .30 .13 .27 .23 .22 .21 .45 .50 .35 .53 .37 .30	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .76 .48 .50 .43 .65 .59 .55 1.2 1.9 1.2 3.0 1.0 .74	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .45 .84 1.55 1.24 1.06 1.36 1.27 .64 1.16 .94 1.15 1.40 1.07	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  E.004  E.005 .008 .009 .022  E.007 E.005 .014 .041 .058 .030 .010 .009	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .47 .17 .18 .05 .36 .35 .24 .58 .90 .64 1.36 .23 .19 .32	PHORUS DIS- SOLVED (mg/L as P) (00666)  .103 .086 .100 .084 .059 .091 .087 .097 .084 .082 .085 .078 .073	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  .090 .079 .092 .071 .034 .080 .077 .079 .069 .066 .068 .064 .057	PHORUS TOTAL (mg/L as P) (00665)  .23     .168     .150     .158     .23     .189     .177     .32     .83     .36     1.11     .36     .21     .182	INORG + ORGANIC PARTIC. TOTAL (mg/L as c) (00694)  3.8  2.5  1.6 .5  3.4  2.6 2.4 5.8 8.3  6.6 12.1 4.1 3.1 2.1	INOR-GANIC, PARTIC. TOTAL (mg/L as c) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681)  4.3 3.0 3.1 3.0 3.9 3.1 5.9 5.4 4.6 6.5 4.3 4.0 3.2	ORGANIC PARTIC-ULATE TOTAL (mg/L as c) (00689)  3.8 2.5 1.6 .4 3.4 2.5 2.3 5.7 8.2 6.5 11.7 4.1 3.1 2.0

# 06934500 MISSOURI RIVER AT HERMANN, MO--Continued (National Stream-Quality Accounting Network)

DATE	PHEO- PHYTIN A, PHYTO- PHYTON (µg/L) (62360)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µg/L) (70953)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ANTI- MONY, DIS- SOLVED (µg/L as Sb) (01095)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BARIUM, DIS- SOLVED (µg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	BORON, DIS- SOLVED (µg/L as B) (01020)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)
OCT 16	31.1	200	K230	350	29.0			3.1			107		
DEC 04	7.9	110	210	56	10.3	4	.25	2.3	83	<.06	97	E.03	<.8
JAN 25	3.5	K17	57	K18	22.4			3.0			98		
FEB 22	5.5	42	K1	K25	14.5			2.1			76		
MAR 13	6.5	K150	76	68	26.0			1.9			83		
APR 02 02 22 24	9.3 7.9 13.9 15.2	K22 K14 560 780	80 87 4800 2400	LA LA 940 1550	29.9 27.1 19.2 16.7	1 2 	.12 .14 	2.5 2.7 2.1 2.0	89 91  	<.06 <.06 	76 79 59 64	.04 .04 	<.8 <.8 
MAY 07 10 22 JUN	12.3 12.8 5.5	1400 3800 720	2500 4200 K250	5400 4000 K420	25.2 6.8 6.4	  	  	2.1 1.4 1.6	  	  	61 33 42	  	  
04 JUL	14.7	K40	K60	K43	23.8	2	.32	2.0	94	<.06	57	<.04	<.8
09 09 AUG	31.4	25 	26 	K6 	30.5	 <1	 <.05	3.5 <.2	 <1	<.06	100 <7	<.04	<.8
13 13	26.7	24	31	37 	55.0 			3.3			130		
SEP 10 10	26.5 27.6	23	45 	39 	48.6 49.1	3	.60 .61	3.4 3.5	89 89	<.06 <.06	115 114	E.03 E.03	<.8 <.8
DATE	COBALT, DIS- SOLVED (µg/L as Co) (01035)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LITHIUM DIS- SOLVED (µg/L as Li) (01130)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MOLYB- DENUM, DIS- SOLVED (µg/L as Mo) (01060)	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	STRON- TIUM, DIS- SOLVED (µg/L as Sr) (01080)	VANA- DIUM, DIS- SOLVED (µg/L as V) (01085)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)
OCT	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	DIS- SOLVED (µg/L as Li) (01130)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (µg/L as Mo) (01060)	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080)	DIUM, DIS- SOLVED (µg/L as V) (01085)	DIS- SOLVED (µg/L as Zn) (01090)
OCT 16 DEC	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	DIS- SOLVED (µg/L as Li) (01130)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (µg/L as Mo) (01060)	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080)	DIUM, DIS- SOLVED (µg/L as V) (01085)	DIS- SOLVED (µg/L as Zn) (01090)
OCT 16	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	DIS- SOLVED (µg/L as Li) (01130)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (µg/L as Mo) (01060)	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080)	DIUM, DIS- SOLVED (µg/L as V) (01085)	DIS- SOLVED (µg/L as Zn) (01090)
OCT 16 DEC 04 JAN	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046) <10	DIS- SOLVED (µg/L as Pb) (01049)	DIS- SOLVED (µg/L as Li) (01130) 41.1 38.5	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (µg/L as Mo) (01060)	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se) (01145) 2.7	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080) 464	DIUM, DIS- SOLVED (µg/L as V) (01085)	DIS- SOLVED (µg/L as Zn) (01090)
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046) <10 <10	DIS- SOLVED (µg/L as Pb) (01049)	DIS- SOLVED (µg/L as Li) (01130) 41.1 38.5	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (µg/L as Mo) (01060)	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se) (01145) 2.7 1.7	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080) 464 485	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.5 2.3	DIS- SOLVED (µg/L as Zn) (01090)
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02 24	DIS- SOLVED (µg/L as Co) (01035)  .18	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046) <10 <10 <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08	DIS- SOLVED (µg/L as Li) (01130) 41.1 38.5 31.1	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (μg/L as Mo) (01060)  3.1	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se) (01145) 2.7 1.7 2.9	DIS- SOLVED (µg/L as Ag) (01075)  <1	TIUM, DIS- SOLVED (µg/L as Sr) (01080) 464 485 465	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.5 2.3 4.4 2.7	DIS- SOUVED (µg/L as Zn) (01090)
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02 24 MAY 07 10 22	DIS- SOLVED (µg/L as Co) (01035) 1827 .26	DIS- SOLVED (μg/L as Cu) (01040)  1.7   1.9 1.8	DIS- SOLVED (μg/L as Fe) (01046)  <10 <10 <10 <10 <10 <10 <10 <15	DIS- SOLVED (µg/L as Pb) (01049)  <.08   E.05 <.08	DIS- SOLVED (µg/L as Li) (01130) 41.1 38.5 31.1 24.2 27.7 28.9 30.6 18.0	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.2   3.8 4.2 	DENUM, DIS- SOLVED (μg/L as Mo) (01060)  3.1   2.9 3.0	DIS- SOLVED (µg/L as Ni) (01065)  1.21   2.00 2.17 	NIUM, DIS- SOLVED (µg/L as Se) (01145) 2.7 1.7 2.9 .8 2.4 2.4 2.6 1.7	DIS- SOLVED (µg/L as Ag) (01075)  <1   <1  <1 	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  464  485  465  381  374  415  437  263	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.5 2.3 4.4 2.7 .8 3.0 3.1 2.9	DIS- SOLVED (µg/L as Zn) (01090)  7   1 1
OCT     16 DECC     04 JAN     25 FEB     22 MAR     13 APR     02 24 MAY     07 10	DIS- SOLVED (μg/L as Co) (01035)  .18   .27 .26  	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	DIS- SOLVED (µg/L as Pb) (01049)  <.08   E.05 <.08  	DIS- SOLVED (µg/L as Li) (01130) 41.1 38.5 31.1 24.2 27.7 28.9 30.6 18.0 20.3	NESE, DIS- SOLVED (µg/L as Mn) (01056)  4.2   3.8 4.2 	DENUM, DIS- SOLVED (μg/L as Mo) (01060)  3.1 2.9 3.0	DIS- SOLVED (µg/L as Ni) (01065)  1.21   2.00 2.17  	NIUM, DIS- SOLVED (µg/L as Se) (01145) 2.7 1.7 2.9 .8 2.4 2.4 2.6 1.7 1.9	DIS- SOLVED (µg/L as Ag) (01075)  <1   <1 <1  	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  464  485  465  381  374  415  437  263 295  337 153	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.5 2.3 4.4 2.7 .8 3.0 3.1 2.9 3.2	DIS- SOLVED (µg/L as Zn) (01090)  7   1 1 1
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 22 24 MAY 07 10 22 JUN 04 JUL 09 09	DIS- SOLVED (μg/L as Co) (01035)  .18   .27 .26  	DIS- SOLVED (μg/L as Cu) (01040)  1.7   1.9 1.8  	DIS- SOLVED (µg/L as Fe) (01046) <10 <10 <10 <10 <10 <10 <10 <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08   E.05 <.08   	DIS- SOLVED (µg/L as Li) (01130) 41.1 38.5 31.1 24.2 27.7 28.9 30.6 18.0 20.3 22.3 6.1 9.9	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.2 3.8 4.2	DENUM, DIS- SOLVED (μg/L as Mo) (01060)  3.1 2.9 3.0	DIS- SOLVED (µg/L as Ni) (01065)  1.21   2.00 2.17  	NIUM, DIS-SOLVED (µg/L as Se) (01145)  2.7  1.7  2.9  .8  2.4  2.4  2.6  1.7  1.9  1.5  .6  1.3	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  464  485  465  381  374  415  437  263  295  337  153  198	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.5 2.3 4.4 2.7 .8 3.0 3.1 2.9 3.2 2.8 2.6 2.4	DIS- SOLVED (µg/L as Zn) (01090)  7   1 1 1  
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 22 24 MAY 07 10 10 JUN 04 JUL 09	DIS- SOLVED (μg/L as Co) (01035) 1827 .2616	DIS- SOLVED (μg/L as Cu) (01040)  1.7 1.9 1.8 1.8	DIS- SOLVED (µg/L as Fe) (01046) <10 <10 <10 <10 <10 <10 <10 <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08   E.05 <.08    <.08	DIS- SOLVED (µg/L as Li) (01130) 41.1 38.5 31.1 24.2 27.7 28.9 30.6 18.0 20.3 22.3 6.1 9.9 17.7	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.2 3.8 4.2 3.7	DENUM, DIS- SOLVED (μg/L as Mo) (01060)  3.1 2.9 3.0 2.1	DIS- SOLVED (µg/L as Ni) (01065)  1.21 2.00 2.17 2.19	NIUM, DIS-SOLVED (µg/L as Se) (01145)  2.7  1.7  2.9  .8  2.4  2.6  1.7  1.9  1.5  .6  1.3  1.4  2.6	DIS- SOLVED (µg/L as Ag) (01075)  <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  464  485  465  381  374  415  437  263  295  337  153  198  260  425	DIUM, DIS- SOLVED (µg/L as V) (01085)  3.5 2.3 4.4 2.7 .8 3.0 3.1 2.9 3.2 2.8 2.6 2.4 4.0 4.1	DIS- SOLVED (µg/L as Zn) (01090)  7 1 1 <1 <1

MISSOURI RIVER MAIN STEM 239

# 06934500 MISSOURI RIVER AT HERMANN, MO--Continued (National Stream-Quality Accounting Network)

DATE	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)
OCT 16	<.002	.015	<.002	<.005	.164	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.030
DEC 04	<.002	.009	<.002	<.005	.065	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.010
JAN 25	<.006	.017	E.004	<.005	.129	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.030
FEB 22	<.006	<.010	<.004	<.005	.215	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.035
MAR 13	<.006	.010	<.004	<.005	.099	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.017
APR 02 02 22 24 MAY	<.006 <.006 <.006 <.006	<.006 <.006 .098 1.53	<.004 <.004 .042 .213	<.005 <.005 <.005 <.005	.055 .057 .997 5.91	<.010 <.010 <.010 <.010	<.002 <.002 <.002 <.002	<.041 <.041 <.041 <.041	<.020 <.020 E.031 <.020	<.005 <.005 <.005 <.005	<.018 <.018 <.018 <.020	<.003 <.003 <.003 <.003	E.018 E.018 E.041 E.131
07 10 22 JUN	<.006 <.006	 .892 .539	.102 .030	<.005 <.005	6.42 3.06	<.010 <.010	<.002 <.002	E.004 <.041	E.004 <.020	.005 <.005	E.016 <.018	<.003 <.003	 E.202 E.117
04 JUL	<.006	.114	.051	<.005	1.91	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.155
09 09 AUG	<.006	.026	.007	<.005	.424	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.068
13 13 SEP	<.006	E.005	<.004	<.005	.130	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.026
10	<.006 <.006	.025	<.004 <.004	<.005 <.005	.186 .191	<.010 <.010	<.002 <.002	<.041 <.041	<.020 <.020	<.005 <.005	<.018 <.018	<.003 <.003	E.034 E.038
DATE	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)
DATE  OCT 16	AZINON, DIS- SOLVED (µg/L)	ELDRIN DIS- SOLVED (µg/L)	FOTON WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER FLTRD 0.7 µ GF, REC (µg/L)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L)	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)
OCT	AZINON, DIS- SOLVED (µg/L) (39572)	ELDRIN DIS- SOLVED (µg/L) (39381)	FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)
OCT 16 DEC	AZINON, DIS- SOLVED (µg/L) (39572)	ELDRIN DIS- SOLVED (µg/L) (39381)	FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLITRD 0.7µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)
OCT 16 DEC 04 JAN 25 FEB 22	AZINON, DIS- SOLVED (µg/L) (39572) <.005	ELDRIN DIS- SOLVED (µg/L) (39381) <.005	FOTON WATER FLTRD 0.7 μ GF, REC (μg/L) (82677) <.02	WATER FLTRD 0.7 µ GF, REC (µg/L) (82668) <.002	FLUR- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82663) <.009	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672) <.005	WATER DISS REC (µg/L) (04095) < .003 < .003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666) <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.030	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006	LACHLOR WATER DISSOLV (µg/L) (39415) .044 .031
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13	AZINON, DIS- SOLVED (μg/L) (39572) <.005 <.005	ELDRIN DIS- SOLVED (µg/L) (39381) <.005 <.005	FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677) < .02 < .02 < .02	WATER FLITRD 0.7 µ GF, REC (µg/L) (82668) <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663) <.009 <.009	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672) <.005 <.005	WATER DISS REC (µg/L) (04095) <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666) <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.030 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .044 .031
OCT 16 DEC 04 JAN 25 FEB 22 MAR	AZINON, DIS- SOLVED (µg/L) (39572) <.005 <.005 <.005	ELDRIN DIS- SOLVED (µg/L) (39381) <.005 <.005 <.005	FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677) < .02 < .02 < .02 < .02	WATER FLITRD 0.7 μ GF, REC (μg/L) (82668) <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663) <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004 <.004	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.030 <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .044 .031 .032
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02 22 24 MAY	AZINON, DIS- SOLVED (μg/L) (39572)  <.005 <.005 <.005 <.005 <.005 <.005 <.007	ELDRIN DIS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677)   <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 .007 <.040 <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .044 .031 .032 .040 .032 .020 .022 .150 1.37
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02 24	AZINON, DIS- SOLVED (µg/L) (39572)  <.005 <.005 <.005 <.005 <.005 <.005 <.007	ELDRIN DTS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677)   <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.02  <.03 .2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2  </.2</td <td>WATER FLITRD 0.7 μ GF, REC (μg/L) (82668)  &lt;.002 &lt;.002</td> <td>FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  &lt;.009 &lt;.009 &lt;.009 &lt;.009 &lt;.009 &lt;.009 &lt;.009 &lt;.009</td> <td>PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  &lt;.005 &lt;.005 &lt;.005 &lt;.005 &lt;.005 &lt;.005 &lt;.005 &lt;.005 &lt;.005</td> <td>WATER DISS REC (µg/L) (04095)  &lt;.003 &lt;.003 &lt;.003 &lt;.003 &lt;.003 &lt;.003 &lt;.003 &lt;.003 &lt;.003 &lt;.003</td> <td>DIS- SOLVED (µg/L) (39341) &lt;.004 &lt;.004 &lt;.004 &lt;.004 &lt;.004 &lt;.004 &lt;.004 &lt;.004 &lt;.004</td> <td>URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)  &lt;.035 &lt;.035 &lt;.035 &lt;.035 &lt;.035 &lt;.035 &lt;.035 &lt;.035 &lt;.035 &lt;.035</td> <td>THION, DIS- SOLVED (µg/L) (39532)  &lt;.027 &lt;.030 &lt;.027 &lt;.027 &lt;.027 &lt;.027 &lt;.027 &lt;.027 &lt;.027 &lt;.027</td> <td>AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  &lt;.050 &lt;.050 &lt;.050 &lt;.050 &lt;.050 &lt;.050 &lt;.050 &lt;.050 &lt;.050</td> <td>PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) &lt;.006 .007 &lt;.040 &lt;.006 &lt;.006 &lt;.006 &lt;.006 &lt;.006 &lt;.006</td> <td>LACHLOR WATER DISSOLV (µg/L) (39415)  .044 .031 .032 .040 .032 .020 .022 .150 1.37</td>	WATER FLITRD 0.7 μ GF, REC (μg/L) (82668)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.030 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 .007 <.040 <.006 <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .044 .031 .032 .040 .032 .020 .022 .150 1.37
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02 24 MAY 07	AZINON, DIS- SOLVED (μg/L) (39572) <.005 <.005 <.005 <.005 <.005 <.005 <.005 005 005 005 005	ELDRIN DIS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITED 0.7 µ GF, REC (µg/L) (82677)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	WATER FLITRD 0.7 μ GF, REC (μg/L) (82668)   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.030 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .044 .031 .032 .040 .032 .020 .022 .150 1.37
OCT 16 DEC 04 JAN 25 FEB 22 MAR 02 02 22 24 MAY 07 10 22 JUN 04 JUL 09	AZINON, DIS- SOLVED (µg/L) (39572)  <.005 <.005 <.005 <.005 <.005 <.005005 <.007014 <.005	ELDRIN DIS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677)   <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)    <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 .007 <.040 <.006 <.006 <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .044 .031 .032 .040 .032 .020 .022 .150 1.37963 .538
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02 24 MAY 07 10 22 JUN 04 JUL	AZINON, DIS- SOLVED (µg/L) (39572)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677)   <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	WATER FLITRD 0.7 μ GF, REC (μg/L) (82668)    <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002   <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 .007 <.040 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .044 .031 .032 .040 .032 .020 .022 .150 1.37963 .538 .275

240 MISSOURI RIVER MAIN STEM

# 06934500 MISSOURI RIVER AT HERMANN, MO--Continued (National Stream-Quality Accounting Network)

DATE	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 μ GF, REC (μg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 μ GF, REC (μg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)
OCT 16	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	M	<.004	<.010	<.011
DEC 04	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	М	<.004	<.010	<.011
JAN 25	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	М	<.004	<.010	<.011
FEB 22	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	М	<.004	<.010	<.011
MAR 13	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	М	<.004	<.010	<.011
APR 02 02 22 24 MAY	<.006 <.006 .013 .020	<.002 <.002 <.002 <.002	<.007 <.007 <.007 <.007	<.003 <.003 <.003 <.003	<.010 <.010 <.010 <.010	<.004 <.004 <.004 <.004	<.022 <.022 <.022 <.022	<.006 <.006 <.006 <.006	<.011 <.011 <.011 <.011	M M E.01 E.01	<.004 <.004 <.004 <.004	<.010 <.010 <.010 <.010	<.011 <.011 <.011 <.011
07 10	.017	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011
22 JUN	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011
04 JUL 09	<.006 <.006	<.002 <.002	<.007 <.007	<.003 <.003	<.010 <.010	<.004	<.022 <.022	<.006 <.006	<.011 <.011	E.01 E.01	<.004	<.010 <.010	<.011 <.011
09 AUG													
13 13 SEP	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011
10 10	<.006 <.006	<.002 <.002	<.007 <.007	<.003 <.003	<.010 <.010	<.004 <.004	<.022 <.022	<.006 <.006	<.011 <.011	E.01 E.01	<.004 <.004	<.010 <.010	<.011 <.011
DATE	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	TER- BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	URANIUM NATURAL DIS- SOLVED (µg/L as U) (22703)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 mm (70331)	SEDI- MENT, SUS- PENDED (mg/L) (80154)	
OCT 16	PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L)	MAZINE, WATER, DISS, REC (µg/L)	THIURON WATER FLTRD 0.7 µ GF, REC (µg/L)	BACIL WATER FLTRD 0.7 µ GF, REC (µg/L)	BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L)	BUTHYL- AZINE, WATER, DISS, REC (µg/L)	BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L)	NATURAL DIS- SOLVED (µg/L as U)	SUSP. SIEVE DIAM. % FINER THAN .062 mm	MENT, SUS- PENDED (mg/L)	
OCT 16 DEC 04	PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	MAZINE, WATER, DISS, REC (µg/L) (04035)	THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)	BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	NATURAL DIS- SOLVED (µg/L as U) (22703)	SUSP. SIEVE DIAM. % FINER THAN .062 mm (70331)	MENT, SUS- PENDED (mg/L) (80154)	
OCT 16 DEC 04 JAN 25	PARGITE WATER FLTRD 0.7 μ GF, REC (μg/L) (82685)	MAZINE, WATER, DISS, REC (µg/L) (04035)	THIURON WATER FLTRD 0.7 μ GF, REC (μg/L) (82670)	BACIL WATER FLTRD 0.7 μ GF, REC (μg/L) (82665)	BUFOS WATER FLTRD 0.7 μ GF, REC (μg/L) (82675)	BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)	BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	LATE WATER FLTRD 0.7 μ GF, REC (μg/L) (82678) <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	NATURAL DIS- SOLVED (µg/L as U) (22703)	SUSP. SIEVE DIAM. % FINER THAN .062 mm (70331)	MENT, SUS- PENDED (mg/L) (80154)	
OCT 16 DEC 04 JAN 25 FEB 22	PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	MAZINE, WATER, DISS, REC (μg/L) (04035) <.011	THIURON WATER FLTRD 0.7 μ GF, REC (μg/L) (82670)  <.02 <.02	BACIL WATER FLTRD 0.7 μ GF, REC (μg/L) (82665) <.034 <.034	BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675) <.02	BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)	BENCARB WATER FLTRD 0.7 μ GF, REC (μg/L) (82681) <.005	LATE WATER FLTRD 0.7 μ GF, REC (μg/L) (82678) <.002	FLUR- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82661) <.009	NATURAL DIS- SOLVED (µg/L as U) (22703)	SUSP. SIEVE DIAM. FINER THAN .062 mm (70331)	MENT, SUS- PENDED (mg/L) (80154) 137	
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13	PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685) <02 <02	MAZINE, WATER, DISS, REC (μg/L) (04035) <.011 <.011	THIURON WATER FLTRD 0.7 μ GF, REC (μg/L) (82670) < .02 < .02	BACIL WATER FLTRD 0.7 μ GF, REC (μg/L) (82665) <.034 <.034	BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675) <.02 <.02	BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)	BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)  <.005 <.005	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678) <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661) <.009 <.009	NATURAL DIS-SOLVED (µg/L as U) (22703)	SUSP. SIEVE DIAM. FINER THAN .062 mm (70331)  62 35	MENT, SUS- PENDED (mg/L) (80154) 137 107	
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02 24	PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685) <02 <02 <02 <02 <02	MAZINE, WATER, DISS, REC (μg/L) (04035) <.011 <.011 .006	THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)  <.02 <.02 <.02 <.02	BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665) <.034 <.034 <.034 <.034	BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675) <.02 <.02 <.02	BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)	BENCARB WATER WATER 0.7 µ GF, REC (µg/L) (82681)  <.005 <.005 <.005	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661) <.009 <.009 <.009	NATURAL DIS-SOLVED (µg/L as U) (22703)	SUSP. SIEVE DIAM. FINER THAN .062 mm (70331)  62 35 19 26	MENT, SUS- PENDED (mg/L) (80154) 137 107 183	
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02 24 MAY 07	PARGITE WATER FLITRD 0.7 µ GF, REC (µg/L) (82685) <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <02 <	MAZINE, WATER, DISS, REC (μg/L) (04035) <.011 .006 .007 .010 <.005 .005 .005	THIURON WATER FLITRD 0.7 µ GF, REC (µg/L) (82670)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)  <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034	BUFOS WATER FLTRD 0.7 μ GF, REC (μg/L) (82675)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)  M M M	BENCARB WATER FLITRD 0.7 µ GF, REC (µg/L) (82681)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	NATURAL DIS- SOLVED (µg/L as U) (22703)  3.79   4.46 4.65 	SUSP. SIEVE DIAM. FINER THAN .062 mm (70331)  62 35 19 26 79 57	MENT, SUS- PENDED (mg/L) (80154) 137 107 183 149 152 197 	
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 22 24 MAY 07 10 22 JUN 04	PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685) <-02 <-02 <-02 <-02 <-02 <-02 <-02 <-02	MAZINE, WATER, DISS, REC (μg/L) (04035) <.011 <.011 .006 .007 .010 <.005 .005 .005 .059 .315	THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)  <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034	BUFOS WATER FLTRD 0.7 μ GF, REC (μg/L) (82675)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)  M M	BENCARB WATER FLITRD 0.7 µ GF, REC (µg/L) (82681)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	NATURAL DIS- SOLVED (μg/L as U) (22703)  3.79 4.46 4.65	SUSP. SIEVE DIAM. * FINER THAN .062 mm (70331)  62 35 19 26 79 57 74 92 90	MENT, SUS- PENDED (mg/L) (80154)  137  107  183  149  152  197  170  383  1470	
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 22 24 MAY 07 10 22 JUN 04 JUL 09 09	PARGITE WATER FLITRD 0.7 µ GF, REC (µg/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	MAZINE, WATER, DISS, REC (μg/L) (04035) <.011 <.011 .006 .007 .010 <.005 .005 .059 .315  .286 .060	THIURON WATER FLITRD 0.7 µ GF, REC (µg/L) (82670)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)  <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034	BUFOS WATER FLTRD 0.7 μ GF, REC (μg/L) (82675)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)  M M	BENCARB WATER FLITRD 0.7 µ GF, REC (µg/L) (82681)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 E.005  E.003 <.009	NATURAL DIS- SOLVED (µg/L as U) (22703)  3.79 4.46 4.65	SUSP. SIEVE DIAM. FINER THAN .062 mm (70331)  62  35  19  26  79  57  74  92 90 72	MENT, SUS- PENDED (mg/L) (80154) 137 107 183 149 152 197   170 383 1470 332	
OCT 16 DEC 04 JAN 25 FEB 22 MAR 13 APR 02 02 24 MAY 07 10 10 JUN 04 JUN	PARGITE WATER FLITRD 0.7 µ GF, REC (µg/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	MAZINE, WATER, DISS, REC (μg/L) (04035) <.011 <.011 .006 .007 .010 <.005 .005 .059 .315  .286 .060 .030 .010	THIURON WATER FLTRD 0.7 μ GF, REC (μg/L) (82670)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)  <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034 <.034	BUFOS WATER FLTRD 0.7 μ GF, REC (μg/L) (82675)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	BUTHYL- AZINE, WATER, DISS, REC (µg/L) (04022)  M	BENCARB WATER FLITRD 0.7 µ GF, REC (µg/L) (82681)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	NATURAL DIS- SOLVED (µg/L as U) (22703)  3.79 4.46 4.65 2.51	SUSP. SIEVE DIAM. FINER THAN .062 mm (70331)  62  35  19  26  79  57  74  92 90 72 80 81	MENT, SUS- PENDED (mg/L) (80154)  137 107 183 149 152 197 170 383 1470 332 150 60	

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA--Laboratory accident.

### 06935755 BONHOMME CREEK NEAR ELLISVILLE, MO

LOCATION.--Lat 38°36'35", long 90°40'20", St. Louis County, Hydrologic Unit 10300200, on right downstream side of Rieger Road bridge, 0.14 mi southwest of State Road 109, 1.56 mi north of State Road 100 (Manchester Road), 1.25 mi west of St. Louis County Highway C, and 9.55 mi upstream of Missouri River.

DRAINAGE AREA. -- 4.44 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1997 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 568.56 ft above National Geodetic Vertical Datum of 1929. Prior to September 1997, at datum of 570.00 ft above National Geodetic Vertical Datum of 1929.

 $REMARKS.--Records \ fair \ except \ estimated \ daily \ discharges \ and \ those \ below \ 0.5 \ ft^3/s \ and \ above \ 500 \ ft^3/s, \ which \ are \ poor.$ 

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 23, 1973 reached a stage of 8.64 ft, former datum, discharge, 2,640 ft<sup>3</sup>/s.

		DISCHAF	RGE, CUBI	C FEET PI	ER SECOND, DAIL	WATER YE Y MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.02 0.02 0.00 0.09 3.5	0.22 0.36 0.30 0.27 0.26	1.9 1.4 0.85 0.70 0.64	e0.70 e0.66 e0.62 e0.61 e0.63	15 5.6 3.4 2.3 1.8	0.72 28 6.4 3.0 3.2	1.7 1.6 1.3 1.1	2.1 1.6 1.3 1.1 0.99	0.41 e0.40 e0.39 e0.38 e1.6	0.17 0.19 1.9 1.1 3.5	0.18 0.18 0.18 0.19 0.23	0.09 0.08 0.08 0.07 0.08
6 7 8 9 10	1.5 0.58 0.37 0.27	0.14 0.19 0.16 0.12 0.10	0.64 0.55 0.51 0.46 0.40	0.75 0.64 0.69 0.76 0.66	1.7 1.5 1.2 1.1	2.6 2.0 1.7 14 3.4	0.99 1.0 8.4 3.0 1.8	21 83 72 23 6.6	e0.69 e0.54 e0.45 e0.38 e0.50	1.0 0.17 0.18 0.20 8.1	0.27 0.40 0.32 0.24 0.30	0.10 0.09 0.08 0.07 0.07
11 12 13 14 15	22 4.1 0.50 0.43 3.2	0.10 0.13 0.15 0.14 0.18	0.38 5.6 2.6 4.9 1.5	0.58 0.58 0.57 0.58 0.54	0.91 0.87 0.77 0.74 0.75	2.7 2.2 1.9 1.7	1.5 1.4 1.3 1.2	3.7		1.2 1.00 0.48 0.30 0.24	0.30 0.29 0.52 0.53 0.21	0.06 0.06 0.09 0.05 0.05
16 17 18 19 20	4.1 0.31 0.18 0.14 0.13	0.17 0.27 0.18 0.25 0.13	61 71 5.5 2.8 1.9	0.44 0.36 0.43 0.52 0.49	0.68 0.64 0.60 3.5 1.9	4.9 2.8 2.2 9.4 7.5	1.1 1.1 0.88 10 20	5.4 37 6.7 3.5 2.4	0.87 0.63 0.50 0.62 0.49	0.23 0.24 0.21 0.21 0.22	0.16 0.12 2.4 0.64 0.26	0.04 0.38 0.48 38 4.2
21 22 23 24 25	0.13 0.13 0.19 34 2.1	0.13 0.14 0.18 37 2.5	2.5 4.8 1.6 1.3	0.48 0.52 0.58 0.91 0.59	1.1 0.91 0.87 0.86 0.89	3.6 2.6 2.3 2.2	18 5.9 3.5 3.8 2.2	1.5 1.1 0.93 1.1 0.86	0.44 0.36 0.32 0.26 0.25	0.21 0.27 0.42 0.26 0.21	0.41 0.22 0.23 0.25 0.20	0.75 0.30 0.21 0.19 0.18
26 27 28 29 30 31	0.96 0.44 0.35 0.31 0.24 0.23	1.9 1.4 5.1 7.8 11	1.0 1.1 e0.98 e0.91 e0.83 e0.76	0.50 0.50 0.47 0.58 50	0.85 0.71 0.71 	11 6.5 4.9 3.2 2.4 2.1	1.7 17 6.4 3.5 2.5	0.62 0.52 0.54 0.47 0.54 0.44	0.29 0.25 0.22 0.22 0.22	0.19 0.20 0.17 0.15 0.15	0.15 0.13 0.12 0.11 0.09 0.08	0.17 0.21 0.15 0.16 0.21
MEAN MAX MIN IN.	3.21 34 0.00 0.80	2.37 37 0.10 0.57	5.87 71 0.38 1.47	6.00 119 0.36 1.50	1.89 15 0.60 0.43	5.84 30 0.72 1.46	4.20 20 0.88 1.02	13.5 104 0.44 3.37	2.03 36 0.22 0.49	0.75 8.1 0.14 0.19	0.32 2.4 0.08 0.08	1.56 38 0.04 0.38
STATIST	rics of M	ONTHLY MEA	N DATA F	OR WATER	YEARS 199	7 - 2002,	BY WATER	YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	0.97 3.21 2002 0.22 2000	1.35 2.74 1999 0.13 2000	1.74 5.87 2002 0.36 2001	4.34 11.2 1999 0.13 2000	5.22 11.2 1999 1.89 2002	5.07 13.2 1998 1.03 2000	2.96 4.47 1998 0.39 2000	5.96 13.5 2002 1.29 1999	5.63 13.7 1998 0.71 1999	1.50 3.95 1998 0.26 2001	0.50 1.07 1998 0.14 1999	0.53 1.56 2002 0.01 1999
SUMMARY	STATIST:	ICS	FO	R 2001 C	ALENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 1997	- 2002
LOWEST HIGHEST	MEAN C ANNUAL M ANNUAL M C DAILY M DAILY MEA	EAN EAN			Dec 1	23,	3.99 119 0.00	Jan Oct		2.97 4.35 1.11 246 0.00		1998 2001 7 2000
MAXIMUN MAXIMUN INSTANT ANNUAL 10 PERC 50 PERC	SEVEN-DAY  M PEAK FLO  M PEAK STA  PANEOUS LO  RUNOFF ()  CENT EXCENTEXC	AGE DW FLOW INCHES) EDS EDS		0.01  5.68 3.0 0.36 0.04	Sep 3,0ct Aug :		0.06 1060 <sup>6</sup> 6.29 0.00 11.76 6.4 0.64	Jun Jun Oct 1	10 11 11 -4	0.00 4930 <sup>a</sup> 9.11 0.00 8.76 4.6 0.48 0.09	Sep Jun 2 Jun 2 1999,200	6 1999 24 2000 4 2000 1,2002

e Estimated  $^{\rm a}$  From rating extended above 243  ${\rm ft}^3/{\rm s}.$ 

### 06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO

LOCATION.--Lat 38°39'28", long 90°37'10", St. Louis County, Hydrologic Unit 10300200, on right downstream wingwall of Highway CC Bridge, 0.96 mi\_south\_of\_U.S. Highway 40, 3.3 mi west of State Highway 340, 1.48 mi east of County Highway C, and 1.48 mi upstream from Missouri River.

DRAINAGE AREA. -- 11.3 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1997 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 449.19 ft above National Geodetic Vertical Datum of 1929. Prior to June 1997, at datum 450.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for estimated daily discharges and those above 1,300  $\mathrm{ft}^3/\mathrm{s}$ , which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 11, 1979 reached a stage of 20.10 ft, former datum, discharge 5,620 ft<sup>3</sup>/s.

		DISCHA	RGE, CUBIC	C FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.19 0.17 0.15 0.14 4.2	0.67 0.95 0.77 0.64 0.59	4.3 2.5 1.9 1.5	e1.8 e1.6 e1.5 e1.4 1.5	41 12 8.9 6.9 5.7	3.4 53 e17 9.3 9.0	5.9 5.5 4.7 4.3 4.0	6.9 6.1 5.2 4.6 3.8	4.4 4.0 3.6 3.5	2.2 2.2 5.4 6.1 2.9	0.80 0.70 0.64 0.64 0.60	0.58 0.40 0.43 0.75 0.71
6 7 8 9 10	1.2 0.84 0.82 1.00 25	0.56 0.48 0.41 0.39 e0.37	1.1 1.2 0.77 0.79 0.76	e1.7 e2.3 e1.8	4.2 4.6	8.9 7.5 7.0 22 9.6	3.9 4.0 14 7.9 5.4	5.1 152 175 189 29	5.8 4.1 3.6 3.4 3.8	2.1 1.9 1.8 1.9 9.3	0.71 0.62 0.57 0.47 0.44	0.59 0.39 0.33 0.29 0.29
11 12 13 14 15	29 13 2.7 1.5 3.4	e0.33 e0.42 e0.47 e0.44 e0.60	0.71 3.5 10 10 5.4	e1.6 e1.5 e1.5 e1.8 e1.6	4.2 4.2 4.0 3.7 3.7	8.4 7.5 6.7 5.9	4.9 4.8 4.8 4.7 4.6	18 109 390 38 26	27 319 18 8.6 6.5	5.6 3.2 2.5 1.8 1.4	0.50 0.72 2.0 3.0 1.5	0.26 0.24 0.24 0.31 0.41
16 17 18 19 20	9.0 1.8 0.92 0.66 0.64	0.53 0.87 0.60 0.66 0.71	95 190 15 8.3 5.6	e1.5 e1.3 1.2 1.4	3.7 3.7 3.6 6.9 7.9	12 7.6 6.6 12 15	4.4 4.3 3.9 12 46	26 80 35 20 15	5.3 4.5 4.3 4.0 3.6	1.2 1.2 1.3 1.3	1.1 1.2 7.2 2.1 1.1	0.51 2.4 1.4 119 14
21 22 23 24 25	0.57 0.73 2.7 31 5.5	0.72 0.86 1.0 75 3.9	4.5 5.6 4.9 3.7 3.5	1.5 1.5 1.8 2.5 2.1	4.6 3.9 3.6 3.7 3.8	9.0 7.6 7.0 6.8 65	26 13 8.5 8.4 7.4	12 10 9.0 9.4 8.0	3.6 3.4 3.3 3.0 2.9	1.2 1.1 1.7 1.7	0.81 0.69 0.97 0.93 0.61	3.0 1.6 1.2 0.81 0.65
26 27 28 29 30 31	1.5 0.84 0.67 0.61 0.57	1.9 1.7 8.0 14 17	3.1 2.8 2.8 2.5 e2.2 e2.0	1.7 1.7 1.9 2.5 108 414	3.8 3.5 3.3 	21 14 10 8.9 7.5 6.6	5.9 36 19 9.5 7.8	6.6 6.0 5.6 5.1 4.7	2.9 2.8 2.7 2.5 2.2	1.1 1.0 1.0 1.0 0.95 0.94	0.53 0.49 0.49 0.39 0.62 0.91	0.67 0.65 0.94 0.71 0.63
MEAN MAX MIN IN.	4.57 31 0.14 0.45	4.52 75 0.33 0.44	12.8 190 0.71 1.27	18.4 414 1.2 1.83	6.20 41 3.3 0.56	13.0 65 3.4 1.30	9.85 46 3.9 0.95	45.7 390 3.8 4.54	16.0 319 2.2 1.54	2.24 9.3 0.94 0.22	1.10 7.2 0.39 0.11	5.15 119 0.24 0.50
							BY WATER					
MEAN MAX (WY) MIN (WY)	2.53 4.57 2002 0.79 2000	3.58 6.11 1998 0.96 2000	4.42 12.8 2002 0.63 2001	10.4 18.8 1999 0.96 2000	17.6 36.6 1999 6.20 2002	14.4 40.9 1998 3.09 2000	8.95 14.5 1998 1.72 2000	19.6 45.7 2002 4.13 2001	15.7 28.9 2000 3.31 1999	4.04 8.51 1998 1.08 1997	2.17 3.25 2000 1.10 2002	2.24 5.15 2002 0.69 1999
SUMMARY	STATIST	ICS	FOR	R 2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YEA	ARS 1997	7 - 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	ANNUAL ME	EAN EAN AN Y MINIMUM DW AGE DOW FLOW INCHES) EDS EDS		5.00 190 0.14 0.23  5.86 8.9 1.7 0.53	Dec 1 Oct Sep 2	4	11.7 414 0.14 0.28 1850 <sup>a</sup> 15.94 0.14 13.71 16 3.0 0.57	Jan Oct Sep Jun Jun Oct 3	31 4 8 12 12 12	8.77 12.3 3.54 932 0.14 0.22 3540 <sup>a</sup> 19.62 0.14 10.28 13 2.1 0.57	May Oct Sep Jun Jun Oct 3	1998 2001 7 2000 4 2001 14 2000 24 2000 24 2000 3-5 2001

e Estimated  $^{\rm a}$  From rating extended above 631  ${\rm ft^3/s.}$ 

# 06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 10	0630	ENVIRONM	ENTAL	57	8.1	82	7.8	513	14.9	180	53.4	10.7	144
DEC 10	1130	ENVIRONM		.79	11.0	87	7.6	606	4.8	250	76.9	15.1	197
10 FEB	1131	REPLICAT								250	76.8	15.1	
04 04 MAR	1115 1130	BLANK ENVIRONM	ENTAL	6.7	13.5	101	7.6	 462	3.2	1 170	.37 52.0	.03 9.60	143
25 MAY	0542	ENVIRONM	ENTAL	109	10.8	89	7.7	384	5.7	120	36.0	6.80	98
28 28	1045 1100	BLANK ENVIRONM	ENTAL	 5.6	7.0	 77	 7.7	 585	18.8	 250	.17 78.0	<.03 13.0	 202
AUG 05	1140	ENVIRONM	ENTAL	.64	6.6	85	7.6	644	27.3	280	83.0	17.0	232
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUSORTHOTOTAL(mg/Las P)(70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 10	145	177	0		293	E1.6	.06	.370	<.01	.220	.50	4.3	17
DEC 10	200	244	0	49.4	E7	<.20	.05	.510	<.01	.030	E.06	10	11
10 FEB				49.4	E5	<.20	.04	.490	<.01	.020	E.05		11
04	143	174	0	<.10 39.0	1 10	<.20 .20	<.01 <.01	<.020 1.00	<.01 <.01	<.010 .040	<.02 .06	7.1	<5 5
MAR 25 MAY	97	119	0		100	2.6	.28	.390	.03	.190	.49	4.0	16
28 28	 205	 250	 0		<1 15	<.20	<.01	<.020 .570	<.01	<.010	<.02	 7.4	<5 7
AUG 05	234	285	0		13	.60	.07	.310	.01	.060	.08	12	11
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (COl./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 10	28000	4000	17000	205	2	<1	1.0	1.0	1.7	241	<1	78	<.1
DEC 10 10	K20 	K38	K33	13 12	<1 <1	1 1	1.0	1.0 1.0	1.0 1.0	25 26	<1 <1	235 235	<.1 <.1
FEB 04 04	 K30	 K75	 K60	<3 21	<1 <1	<1 <1	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2 22	<1 <1	<1 133	<.1 <.1
MAR 25 MAY	1200	1100	4950	388	1	<1	<1.0	<1.0	2.4	352	<1	106	<.1
28 28 AUG	 100	 116	 96	<3 11	<1 <1	<1 <1	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2 23	<1 <1	<1 199	<.1 <.1
05	К4	K20	108	<3	2	<1	<1.0	<1.0	<1.0	3	<1	254	<.1

# 06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 10	1.7	<1	<1.0	42	<7	<3	<2	<3	<3.0	<3	<20	<3	<2
DEC 10 10	1.4 1.2	<1 <1	<1.0 <1.0	21 17									
FEB 04 04	<1.0 1.6	<1 <1	<1.0 <1.0	<2 188									
MAR 25	2.0	<1	<1.0	102	<7	<3	<2	<3	<.7	<3	<3	<3	<2
MAY 28 28	<1.0 1.2	<1 <1	<1.0 <1.0	<2 63									
AUG 05	2.3	<1	<1.0	<2									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 10 DEC	<2	<2	<3	<3	<3	<2	<2	<3	<2	<2	<.01	М	<2
10 10 FEB													
04 04 MAR													
25 MAY	<2	<2	<1	<5	<3	<2	<2	<3	<2	<2	<.01	M	<2
28 28													
AUG 05													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA- CENE WATER UNFLITRD REC (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10	<40	<3	<3	<3	<2	<3	<3	<2	<2	<19	<.02	<.1	<.01
DEC 10 10													
FEB 04													
04 MAR													
25 MAY	<40	М	М	M	М	М	<3	<2	<2	<6	<.02	<.1	<.01
28 28 AUG													
05													

# 06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued (Metropolitan Sewer District)

DATE	CHRY- SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
10 DEC	<3	<2	<.02	1.10	<.006	М	М	M	<5		<.02	<.01	<.01
10 10 FEB													
04 04													
MAR 25 MAY	М	<4	<.02	.70	<.006	<2	<2	<2	<5	<.30	<.02	<.01	<.01
28 28													
AUG 05													
DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (μg/L) (39530)	METH- OXY- CHLOR, TOTAL (µg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
OCT 10 DEC	М	<2	<.01	<.009	<.01	<2	<3	М	<.006	<.20	<.020	<.01	<.006
10 10 FEB													
04 04													
MAR 25 MAY	М	<2	<.01	<.009	<.01	<2	М	<2	<.006	<.20	<.020	<.02	<.006
28 28													
AUG 05													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL	N-NITRO -SODI- METHYL- AMINE TOTAL	N- NITRO- SODI-N- PROPYL- AMINE TOTAL	N-NITRO -SODI- PHENYL- AMINE TOTAL	P,P'- DDD UNFILT RECOVER	P,P'- DDE, TOTAL	P,P'- DDT UNFILT RECOVER	PARA- CHLORO- META CRESOL TOTAL	PARA- THION, TOTAL	PCB, TOTAL	PENTA- CHLORO- PHENOL TOTAL	PHENAN- THRENE TOTAL	PHENOL UNFILT. WATER
	(µg/L) (34292)	(μg/L) (34438)	(μg/L) (34428)	(μg/L) (34433)	(µg/L) (39360)	(µg/L) (39365)	(µg/L) (39370)	(µg/L) (34452)	(µg/L) (39540)	(µg/L) (39516)	(µg/L) (39032)	(µg/L) (34461)	(µg/L) (34694)
OCT 10 DEC	<4	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	<4	М	<3.0
10 10													
FEB 04 04													
MAR 25	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	м	м	<3.0
MAY 28													
28 AUG													
05													

# 06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued (Metropolitan Sewer District)

				BENZENE	BENZENE	BENZENE	BENZENE	ETHANE		
				1,2,4-	1,3-DI-	1,4-DI-	O-DI-	HEXA-	HEXA-	
				TRI-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	
			TOX-	CHLORO-	WATER	WATER	WATER	WATER	BUT-	NAPHTH-
	PHORATE	PYRENE	APHENE,	WAT UNF	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	ADIENE	ALENE
DATE	TOTAL	TOTAL	TOTAL	REC	REC	REC	REC	RECOVER	TOTAL	TOTAL
	$(\mu g/L)$									
	(39023)	(34469)	(39400)	(34551)	(34566)	(34571)	(34536)	(34396)	(39702)	(34696)
OCT										
10	<.02	М	<1	<2	<2	<2	<2	<2	<3	<5
DEC	1.02	1-1	~1	12	~2	~2	~2	12	~3	~5
10										
10										
FEB										
04										
04										
MAR										
25	<.02	M	<1	<2	<2	<2	<2	<2	<1	<5
MAY										
28										
28										
AUG										
05										

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 06935830 CAULKS CREEK AT CHESTERFIELD, MO

LOCATION.--Lat 38°39'16", long 90°35'42", St. Louis County, Hydrologic Unit 10300200, on downstream side of middle pier of Highway CC bridge, 2.0 mi west of State Highway 340, 1.1 mi south of U.S. Route 40, and 1.09 mi upstream of Bonhomme Creek.

DRAINAGE AREA.--17.1 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1996 to current year. Annual peaks only for the 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 453.98 ft above National Geodetic Vertical Datum of 1929. Prior to July 1996, at datum 450.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges and those above 1,300  ${\rm ft}^3/{\rm s}$ , which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 11, 1979 reached a stage of 19.97 ft, former datum, discharge 7,940 ft<sup>3</sup>/s.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.0 4.0 4.1 4.2	6.1 7.4 6.8 5.8 5.5	22 12 9.7 8.4 7.7	6.5 6.3 6.0 6.0	105 48 31 21 15	6.5 86 45 21 16	14 13 11 9.8 9.5	18 16 13 12 11	9.9 9.7 9.5 9.3	7.3 7.3 25 24 10	4.8 4.7 4.6 4.6 4.6	5.0 5.0 5.0 4.9 4.8
6 7 8 9 10	15 7.1 5.4 5.0 84	5.3 5.3 5.1 4.7 4.8	7.3 6.8 6.4 6.0 5.8	6.5 6.4 6.2 6.3 6.1	13 11 10 9.2 9.0	15 13 11 53 24	9.3 9.7 40 24 15	16 312 250 327 68	20 12 10 9.6 16	8.3 7.5 6.9 6.5 7.0	5.5 5.1 4.7 4.5 4.6	5.1 4.8 4.7 4.8 4.8
11 12 13 14 15	104 70 21 15 15	4.6 4.5 4.5 4.6 4.5	5.6 14 35 41 19	5.7 5.6 5.8 5.8 5.5	8.6 8.3 7.7 7.6 7.5	16 14 12 11 29	12 12 12 11 10	41 185 541 125 102	122 1030 60 29 19	8.8 7.7 7.2 6.3 6.0	4.5 4.7 7.3 14 12	4.7 4.5 4.6 4.7 4.8
16 17 18 19 20	53 15 10 8.4 7.5	4.4 4.2 4.3 4.8 4.3	190 233 60 35 23	5.3 5.2 5.1 6.0 6.8	7.2 6.9 6.5 13	36 18 14 27 42	9.7 16 11 15 104	73 152 73 41 29	15 12 11 11 9.7	5.8 5.9 5.5 5.3 5.2	9.7 9.2 24 15 8.1	5.1 9.0 13 7.5 e150
21 22 23 24 25	6.8 6.3 6.9 133 34	4.2 4.3 4.2 163 24	15 17 14 10 9.2	6.1 5.8 5.9 10 7.5	9.9 8.2 7.9 7.6 7.5	22 16 15 14 118	75 43 24 24 26	23 19 18 18 16	9.3 9.1 8.9 8.7 8.6	5.1 5.1 7.6 6.0 5.5	6.5 6.5 7.4 6.0	e50 e9.0 e6.4 e7.0 e6.4
26 27 28 29 30 31	13 9.2 7.8 6.7 6.8 6.1	11 9.8 27 49 68	8.7 8.4 8.1 7.5 7.1 6.8	5.9 5.6 5.3 5.7 124 385	8.1 7.3 6.7 	54 42 27 21 17 15	16 81 64 29 21	14 13 12 12 11 10	8.4 8.3 8.0 7.8 7.6	5.2 5.1 5.2 5.1 4.9	5.7 5.6 5.2 5.0 5.2 5.1	e6.3 e6.2 e8.0 e7.5 e7.0
MEAN MAX MIN IN.	22.8 133 4.0 1.54	15.5 163 4.2 1.01	27.7 233 5.6 1.87	22.1 385 5.1 1.49	15.2 105 6.5 0.93	28.1 118 6.5 1.89	25.7 104 9.3 1.68	82.9 541 10 5.59	51.8 1030 7.6 3.38	7.52 25 4.9 0.51	7.11 24 4.5 0.48	12.4 150 4.5 0.81
							BY WATER					
MEAN MAX (WY) MIN (WY)	12.8 22.8 2002 8.15 2000	20.9 62.0 1997 6.33 2000	12.5 27.7 2002 5.76 1999	20.4 34.4 1999 5.33 2000	41.2 72.6 1999 15.2 2002	29.7 78.1 1998 9.70 2000	19.5 29.2 1998 6.64 2000	37.1 82.9 2002 12.5 1999	37.3 59.3 1998 8.40 1999	15.1 35.4 1998 7.52 2002	12.3 20.2 1996 7.11 2002	10.4 21.9 1996 4.33 1999
SUMMARY	STATIST	ICS	FOR	2001 CAL	ENDAR YEA	AR	FOR 2002	WATER YEA	AR	WATER YE	ARS 1996	5 - 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM INSTANTI ANNUAL 10 PERC 50 PERC	C ANNUAL M ANNUAL MI C DAILY MI DAILY MEA	EAN EAN AN Y MINIMUM DW AGE DW FLOW INCHES) EDS EDS		16.2  233 1.9 3.9 12.87 30 7.6 4.8	Feb 2 Sep Aug 2	1	26.7  1030 4.0 4.3 9690 <sup>a</sup> 14.37 4.0 Se 21.18 51 8.9 4.8	Jun 1 Oct Nov 1 Jun 1 Jun 1 everal Day	2 L7 L2 L2	22.0 30.4 13.2 1920 1.9 3.7 10900 <sup>a</sup> 14.95 0.61 <sup>b</sup> 17.50 34 8.8 5.1	Sep Sep Jun Jun	1998 2001 7 2000 1 2001 21 1999 24 2000 24 2000 4 2001

e Estimated From rating extended above 544 ft $^3/s$ . b Occurred during period of construction upstream. Verified by field visit.

### 06935850 CREVE COEUR CREEK AT CHESTERFIELD, MO

LOCATION.--Lat 38°38'47", long 90°31'35", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.13, T.45 N., R.4 E., St. Louis County, Hydrologic Unit 10300200, on left downstream abutment of Highway 40 bridge, 3.71 mi north of State Highway 100 (Manchester Road), 0.75 mi west of State Highway 141, and 10.33 mi upstream of Missouri River.

DRAINAGE AREA. -- 5.62 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 495.20 ft above National Geodetic Vertical Datum of 1929. REMARKS.--Records fair except for discharges above  $600 \text{ ft}^3/\text{s}$  and below  $1 \text{ ft}^3/\text{s}$ , which are poor.

		DISCHA	RGE, CUBI	C FEET PEF		WATER YE Y MEAN VA	AR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.05 0.05 0.05 0.04 14	0.50 4.5 0.56 0.39 0.73	1.1 0.58 0.55 0.49 0.53	0.45 0.43 0.47 0.46 0.53	18 6.5 4.2 2.9 2.5	1.9 42 7.5 2.9 3.5	2.5 2.9 2.1 1.8 1.2	2.0 1.8 1.4 1.9	1.2 1.2 1.3 2.1	0.56 0.52 0.63 1.3 0.66	0.24 0.22 0.25 0.22 0.24	0.37 0.35 0.35 0.33 0.32
6 7 8 9 10	1.1 0.35 0.25 0.19 46	1.1 1.2 1.5 2.2 1.3	0.90 0.70 0.48 0.64 0.54	0.80 0.78 0.57 0.67 0.72	2.5 2.3 2.2 2.8 3.2	3.1 2.4 2.6 33 4.4	1.2 1.8 29 4.7 2.2	10 136 95 116 6.4	2.1 0.85 0.70 0.72	0.51 0.40 0.37 0.32 0.30	0.74 0.31 0.23 0.21 0.21	0.33 0.33 0.34 0.35 0.34
11 12 13 14 15	47 14 5.0 1.8 21	0.64 0.62 0.69 0.52 0.54	0.57 23 8.7 29 4.6	0.52 0.50 0.45 0.54 0.47	2.2 2.0 1.8 1.9	3.5 2.9 2.5 2.6 27	1.9 2.3 2.2 2.1 2.2	3.5 106 141 7.3 3.9	108 251 5.8 2.2 1.5	0.40 0.39 0.36 0.32 0.34	0.22 0.23 8.9 2.8 0.62	0.31 0.30 0.33 0.33 0.37
16 17 18 19 20			124 93 8.2 3.7 2.5	0.48 0.42 0.42 1.6 1.0	1.6 1.8 1.8 13 4.1	7.2 3.2 3.1 16 8.1	2.3 4.1 1.4 22 27	15 69 11 3.6 2.1	1.1 1.1 0.96 0.91 0.83	1.9 0.57 0.33 0.30 0.31	0.47 0.44 18 0.99 0.61	0.39 7.2 0.95 65 15
21 22 23 24 25	1.0 1.00 4.4 94 2.4	0.54 0.45 1.1 131 0.97	1.3	0.76 0.65 1.2 4.7 0.86	2.1 1.7 1.6 1.6 2.8	2.7 2.2 2.2 3.5 38	24 4.8 2.4 8.1 2.7	1.5 1.4 1.3 3.1 1.7	0.78 0.75 0.72 0.73 0.76	0.29 0.93 2.1 0.35 0.30	0.49 0.44 1.1 0.62 0.48	1.4 0.66 0.52 0.51 0.45
26 27 28 29 30 31	0.54 0.47 0.48 0.55 0.52 0.56	2.2 0.68 19 25 32	0.93 0.60 0.63 0.54 0.50	0.95 1.2 0.78 5.5 63 76	3.3 2.0 1.9 	19 5.7 3.1 2.7 2.8 2.4	1.7 48 13 2.8 2.1	1.1 1.2 1.5 1.4 1.1	0.70 0.63 0.62 0.62 0.64	0.35 0.34 0.32 0.32 0.29	0.42 0.37 0.35 0.36 0.35	0.41 0.42 0.43 0.42 0.40
MEAN MAX MIN	8.79 94 0.04	7.82 131 0.39	10.3 124 0.47	5.42 76 0.42	3.44 18 1.6	8.51 42 1.9	7.55 48 1.2	24.2 141 1.1	14.4 251 0.62	0.54 2.1 0.26	1.34 18 0.21	3.31 65 0.30
STATIS							BY WATER					
MEAN MAX (WY) MIN (WY)	4.42 8.79 2002 2.14 1998	5.26 7.82 2002 0.77 2000	3.69 10.3 2002 0.93 2001	5.72 10.3 1999 0.85 2000	8.31 14.9 1998 3.44 2002	7.35 15.5 1998 3.49 2000	6.08 8.84 1999 1.62 2000	12.8 24.2 2002 4.36 1998	12.6 20.5 2000 3.13 1999	4.61 10.5 1998 0.54 2002	2.69 5.45 1998 0.44 2001	1.69 3.31 2002 0.33 1999
SUMMAR	Y STATIST	ICS	FO	R 2001 CAI	LENDAR YEA	AR	FOR 2002	WATER Y	EAR	WATER Y	EARS 1997	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN 10 PER 50 PER	MEAN T ANNUAL ANNUAL M T DAILY ME SEVEN-DA M PEAK FL M PEAK ST TANEOUS L CENT EXCE CENT EXCE	EAN EAN AN Y MINIMUM OW AGE OW FLOW EDS EDS	5. 1 0. 1 0. - - - 0. 0.	72 04 Sep 5,2 05   12 68	Feb 29,30,0ct Sep 2	24 4 228	8.01 251 0.04 0.25 1690 <sup>a</sup> 15.35 0.03 17 1.2 0.33	Jun Oct Jul Jun Jun Oct	12 4 30 12 12 12,5	6.30 8.03 4.54 480 0.02 0.05 1890 15.88 0.02 12 1.2	May Sep 17, Sep : Jun : Jun : Sep 17,	1998 2001 7 2000 24 1999 28 2001 24 2000 24 2000 24 1999

 $<sup>^{\</sup>rm a}$   $\,$  From rating extended above 259  ${\rm ft}^{3}/{\rm s}.$ 

#### 06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO

LOCATION.--Lat 38°40'55", long 90°29'18", St. Louis County, Hydrologic Unit 10300200, 200 ft downstream of Highway 340 bridge, 2.10 mi west of Interstate 270, 2.95 mi north U.S. Route 40, and 5.80 mi upstream of Missouri River.

DRAINAGE AREA. -- 22.0 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- June 1997 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 449.43 ft above National Geodetic Vertical Datum of 1929. Prior to June 1997, at datum 451.10 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for discharges above 1,200 ft<sup>3</sup>/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 11, 1979 reached a stage of 14.78 ft, former datum, discharge 4,820 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY NOV DEC JAN FEB AUG SEP 60 1 0.26 3.7 13 3.6 4.7 8.4 9.4 6.4 3.4 1.6 1.7 2 0.37 9.8 7.7 19 124 9.2 8.9 7.4 3.7 2.1 3.6 6.0 3 0 41 6.3 5 9 3.5 14 26 5.8 3 4 2.0 2.5 6.8 1.7 0.40 4.4 3.5 13 6.4 4.4 1.5 11 5.4 5 46 1.7 6.4 92 1.6 8.4 11 6 1.7 7.8 13 5.9 35 8.3 4.0 4.4 15 6.1 8.6 1.1 2.2 3.0 3.0 1.4 3.1 4.1 7.5 9.0 6.3 628 7.7 1.3 0.63 7.8 2.5 8 2.5 3.8 6.6 85 382 6.4 1.5 2.5 2.2 107 20 602 5.4 0.48 4.1 6.4 1.4 9.3 10 176 1.7 2.0 4.1 10 16 40 3.8 1.7 30 11 148 1.6 2.2 3.9 8.5 12 7.8 710 2.7 1.6 1.3 12 13 1.2 3.8 5.9 7.6 1.6 68 58 9.8 357 1520 15 1.6 4.5 23 38 8.9 904 30 30 5.2 14 13 1.3 98 8.1 6.8 35 13 2.5 12 1.1 15 35 1.3 13 3.5 5.1 69 6.3 19 9.3 2.3 4.5 1.1 47 7.9 16 66 1.3 345 3.4 30 5.9 13 3.2 1.2 17 6.5 1.1 1.4 373 27 3.3 4.3 12 10 294 52 6.8 7.7 2.6 57 25 9.7 6.2 18 10 29 13 5.4 41 20 5.6 10 20 2.3 2.8 8.3 5.7 18 34 135 15 5.1 2.2 4.5 51 21 1.8 6.9 4.4 8.4 12 5.0 2.3 9.1 14 1.6 1.7 6.1 5.3 22 11 2.9 3.4 22 2.0 15 4.0 9.5 10 4.6 10 4.4 23 3.6 9.4 4.4 8.7 9.5 4.4 22 3.4 259 526 16 9.4 29 13 33 5.2 25 20 13 5.3 5.1 5.5 287 17 11 15 2.5 4.0 2.3 26 4.8 8.9 4.9 4.0 8.3 59 8.0 8.7 5.2 2.3 2.1 2.4 2.2 4.7 4.6 3.7 3.6 172 57 7 9 2.5 2.3 27 10 5.0 25 4.9 2.1 1 9 28 53 4.8 15 8.6 5.0 2.0 2.0 8.6 29 2.0 71 4.5 ---13 15 11 3.8 2.0 1.8 2.0 7.7 7.0 30 2 1 114 3 9 385 11 11 3.6 2 1 2 0 1 9 3.0 3.8 1.8 31 9.1 MEAN 29.2 28.4 35.3 10.3 33.1 27.7 116 86.3 4.72 5.93 39.9 11.9 259 526 373 721 60 287 172 904 1520 22 57 215 MAX MIN 0.26 1.1 2.0 3.1 4.1 4.7 5.9 6.4 3.6 1.7 1.3 0.49 1.74 0.31 1.85 2.09 6.05 4.37 0.25 0.60 IN. 1.53 1.44 1.41 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY) 11.4 MEAN 13.3 16.2 12.7 29.9 48.1 38.7 25.3 60.0 68.4 13.0 7.20 28.4 2002 MAX 29 2 35 3 75.4 95 9 110 48.2 116 115 22.0 28 6 11 9 1999 2000 2002 1998 2002 1998 2002 1999 1998 2002 (WY) 1998 6.51 4.16 5.43 3.40 10.3 9.31 6.56 20.3 15.8 4.05 1.70 1.16 MIN (WY) 1998 2000 1999 2000 2002 2000 2000 1998 2001 1997 2001 1999 SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1997 - 2002 ANNUAL MEAN 18.8 35.9 28.6 HIGHEST ANNUAL MEAN 37.0 1998 LOWEST ANNUAL MEAN 13.6 2001 HIGHEST DAILY MEAN 526 1520 Jun 12 2520 Jun 24 2000 Nov 24 LOWEST DAILY MEAN 0.25 Sep 15 0.26 Oct 1 0.20 Sep 17 1999 ANNUAL SEVEN-DAY MINIMUM Sep 15 1999 0.33 Sep 26 1.2 Nov 12 0.30 5140<sup>a</sup> Jun 12 MAXIMUM PEAK FLOW 7330<sup>a</sup> Jun 24 2000 MAXIMUM PEAK STAGE \_\_\_ 14.30 Jun 12 16.43 Jun 24 2000 INSTANTANEOUS LOW FLOW Sep 17 1999 0.24 Oct. 1 0.16 ANNUAL RUNOFF (INCHES) 11.56 22.13 17.68 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 36 57 37 4.4 5.4 5.8 90 PERCENT EXCEEDS 0.64

<sup>&</sup>lt;sup>a</sup> From rating extended above 588 ft<sup>3</sup>/s.

# 06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 10	0544	ENVIRONM	ENTAL	42	7.9	82	7.5	186	16.5	64	19.6	3.65	46
DEC 10	1315	ENVIRONM	ENTAL	1.97	9.0	73	7.7	894	5.8	330	92.7	24.0	216
FEB 04	1330	ENVIRONM	ENTAL	10	12.2	93	7.8	937	3.9	300	83.0	22.0	204
MAR 20	1919	ENVIRONM	ENTAL	56	9.6	84	7.9	1110	9.0	240	68.0	17.0	154
MAY 28	1300	ENVIRONM	ENTAL	7.5	7.7	86	7.8	1010	19.5	170	50.0	12.0	251
AUG 05	1245	ENVIRONM	ENTAL	1.6	4.9	65	7.6	856	28.6	320	89.0	23.0	221
DATE	ANC WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 10 DEC	44	54	0		338	E1.9	.08	.410	.01	.240	.58	3.0	20
10 FEB	217	264	0	108	E8	E.50	.06	.460	.01	.090	E.10	9.3	13
04 MAR	200	244	0	130	15	.50	.03	1.00	<.01	.060	.11	7.0	7
20 MAY	157	192	0		66	.90	.08	.440	.02	.060	.15	3.4	11
28 AUG	254	310	0		39	.80	.12	.790	.05	.090	.17	7.7	25
05	225	275	0		12	.60	.09	.290	.02	.140	.17	11	15
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT	67000	42000	47000	EOC	2	٦1	1 0	1 0	2.0	E4F	J1	Γ4	1
10 DEC 10	67000 K20	42000 100	47000 K77	506 17	2	<1 <1	1.0	1.0	2.0 1.1	545 57	<1 <1	54 192	.1 <.1
FEB 04	K20 K10	K80	K150	38	1	<1	<1.0	<1.0	1.0	50	<1	242	<.1
MAR 20	K360	680	860	180	2	<1	<1.0	4.6	2.2	188	<1	232	<.1
20 MAY 28	400	480	192	141	2	<1	<1.0	<1.0	2.5	163	<1	192	<.1
AUG 05	¥00 K17	K343	K20	<3	6	<1	<1.0	<1.0	1.3	4	<1	487	<.1
03	KI,	11343	1020	٠,	5	~±	-1.0	`+.0	1.5	-	~±	107	

# 06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 10	1.3	<1	<1.0	37	<7	М	<2	<3	<3.0	<3	<20	<3	<2
DEC 10	2.2	<1	<1.0	40									
FEB 04	1.9	<1	<1.0	110									
MAR 20	2.9	<1	<1.0	49	<7	<3	<2	<3	<.7	<3	<3	<3	<2
MAY 28	2.6	<1	<1.0	47									
AUG 05	3.5	1	<1.0	<2									
DATE	2- CHLORO- NAPH- THALENE TOTAL	2- CHLORO- PHENOL TOTAL	2- NITRO- PHENOL TOTAL	3,3'- DI- CHLORO- BENZI- DINE TOTAL	4,6- DINITRO -ORTHO- CRESOL TOTAL	4- BROMO- PHENYL PHENYL ETHER TOTAL	4- CHLORO- PHENYL PHENYL ETHER TOTAL	4- NITRO- PHENOL TOTAL	ACE- NAPHTH- ENE TOTAL	ACE- NAPHTH- YLENE TOTAL	ALDRIN, TOTAL	ANTHRA- CENE TOTAL	BENZENE NITRO- WATER UNFLTRD RECOVER
	(μg/L) (34581)	(µg/L) (34586)	(μg/L) (34591)	(μg/L) (34631)	(μg/L) (34657)	(μg/L) (34636)	(μg/L) (34641)	(μg/L) (34646)	(µg/L) (34205)	(µg/L) (34200)	(µg/L) (39330)	(µg/L) (34220)	(μg/L) (34447)
OCT 10 DEC	<2	<2	<3	<3	<3	<2	<2	<3	M	М	<.01	М	<2
10 FEB													
04													
MAR 20 MAY	<2	<2	<1	<5	<3	<2	<2	<3	<2	<2	<.01	<2	<2
28 AUG													
05													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10	DINE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	ANTHRA- CENE WATER UNFLTRD REC (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L)	CHLORO- ETHOXY) METHANE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L)	PHENO- THION WATER UNFLTRD (µg/L)	DANE, TECH- NICAL TOTAL (µg/L)	PYRIFOS TOTAL RECOVER (µg/L)
OCT 10 DEC 10	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10 DEC 10 FEB 04	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10 DEC 10 FEB 04 MAR 20	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 10 DEC 10 FEB 04 MAR 20 MAY 28	DINE TOTAL (µg/L) (39120) <40	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230) E1	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E1	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) <19	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 10 DEC 10 FEB 04 MAR 20	DINE TOTAL (µg/L) (39120) <40	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230) E1	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E1	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) <19	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 10 DEC 10 FEB 04 MAR 20 MAY 28	DINE TOTAL (µg/L) (39120) <40	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230) E1	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E1	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) <19	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 10 DEC 10 FEB 04 MAR 20 MAY 28 AUG 05	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (μg/L) (34247)  M <1 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E1 <2  DEF TOTAL (µg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M <2 AZINON, TOTAL (µg/L) (39570)	ANTHRA-CENE WATER WATER UNFLTRD REC (µg/L) (34526)  M <2 ELDRIN TOTAL (µg/L) (39380)	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E1  <3  <3   DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2  <2    DI-N-BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2 DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 <6 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1  ENDRIN WATER UNFLIRD (µg/L) (39390)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 10 DEC 10 FEB 04 MAR 20 MAY 28 AUG 05  DATE	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L) (34247)  M <1 CYCLOPE NTADIEN HEXA- CHLORO- UNFLIRD RECOVER (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E1 <2 DEF TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M < 22 AZINON, TOTAL (µg/L)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)  M < DI- ELDRIN TOTAL (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 <3 <3 UDIETHYL PHTHAL- ATE TOTAL (µg/L)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <1 METHYL PHTHAL-ATE TOTAL (µg/L)	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)	ETHYL HEXYL) PHTHAL ATE TOTAL (µg/L) (39100)  <19 <6 DISUL- FOTON UNFILT RECOVER (µg/L)	PHENO-THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.TOTAL RECOVER (µg/L) (38932)
OCT 10 DEC 10 FEB 04 MAR 20 MAY 28 AUG 05  DATE  OCT 10 DEC 10	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (μg/L) (34247)  M <1 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)	FLUOR- AN- THENNE TOTAL (µg/L) (34230)  E1 <2  DEF TOTAL (µg/L) (39040)  E.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M <2 AZINON, TOTAL (µg/L) (39570)	ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)  M <2 DI-ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E1  <3   DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 S2 BUTYL PHTHAL ATE TOTAL (µg/L) (39110)	CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2 DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 <6 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 10 DEC 10 FEB 04 MAR 20 MAY 28 AUG 05  DATE  OCT 10 DEC 10 FEB 04 MAR	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  M	A- PYRENE TOTAL (μg/L) (34247)  M <1  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (μg/L) (34230)  E1 <2  DEF TOTAL (μg/L) (39040)  E.02	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M <  DI- AZINON, TOTAL (μg/L) (39570)  .04	ANTHRA- CENE WATER WATER UNFLTRD REC (µg/L) (34526)  M <  DI- ELDRIN TOTAL (µg/L) (39380)  <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 <3 <3  DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL-ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (L(g/L) (34273)  <2 <2 <2 UI-N-BUTYL PHTHAL-ATE TOTAL (L(g/L) (39110)  M	CHLORO-ISO-PROPYL) PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2 DI-N-OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 <6 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01  ETHION, TOTAL (µg/L) (39398)  <.01
OCT 10 DEC 10 FEB 04 MAR 20 AUG 05  DATE  OCT 10 DEC 10 FEB 04 MAR 20 MAY	DINE TOTAL (µg/L) (39120)  <40 <40 CHRY- SENE TOTAL (µg/L) (34320)  M	A- PYRENE TOTAL (μg/L) (34247)  M <1  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E1 <2 DEF TOTAL (µg/L) (39040)  E.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M < 22 AZINON, TOTAL (µg/L) (39570)  .04	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)  M <2 DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E1  <3  <3  UIETHYL PHTHAL- ATE TOTAL (µg/L) (34336) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3  METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLIRD RECOVER (µg/L) (34273)  <2 <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 <6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 10 DEC 10 FEB 04 MAR 20 MAY 28 AUG 05  DATE  OCT 10 DEC 10 FEB 04 MAR 20	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)  M <3	A- PYRENE TOTAL (μg/L) (34247)  M <1  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E1 <2 DEF TOTAL (µg/L) (39040)  E.02 <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M <2 AZINON, TOTAL (µg/L) (39570)  .0405	ANTHRA- CENE WATER WATER UNFLTRD REC (µg/L) (34526)  M < <  DI- ELDRIN TOTAL (µg/L) (39380)  <.006 <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 <3 <3  DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M < <2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M <2	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 SIDI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)  M <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 <66 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  < < < < < < < < <-	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01 <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01

### 06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued (Metropolitan Sewer District)

DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (μg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (μg/L) (39530)	METH- OXY- CHLOR, TOTAL (μg/L) (39480)	METHYL PARA- THION, TOTAL (μg/L) (39600)	MIREX, TOTAL (μg/L) (39755)
OCT 10	E2	М	<.01	<.009	<.01	<2	E1	М	<.006	<.20	<.020	<.01	<.006
DEC 10													
FEB 04													
MAR 20	<2	<2	<.01	<.009	<.01	<2	<3	<2	<.006	<.50	<.020	<.02	<.006
MAY 28													
AUG 05													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	(µg/L)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 10	<4	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
10 FEB													
04 MAR													
20 MAY	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	<4	<2	<3.0
28 AUG													
05													
	DATE	РНОR ТОТ ( µg ( 390	'AL TOT (μg	AL TOT	1,2, TR X- CHLO NE, WAT 'AL RE /L) (µg	II- CHLC RO- WAT UNF UNFI C RE /L) (µg	·DI- 1,4 DRO- CHI TER WA TRD UNF CC F (/L) (µ	I-DI- O-: JORO- CHL LITER WA' LITED UNF REC R g/L) (MG	ZENE ETHA DI- HEX ORO- CHLO TER WAT LTRD UNFL EC RECC (µg 536) (343	A- HEX PRO- CHLC ER BUT TRD ADIE OVER TOT /L) (µg	RO- '- NAPE 'NE ALE 'AL TOT /L) (µg	ENE CAL /L)	
	OCT 10 DEC	<.	02 E1	<1	<2	<2	? <	:2 <	2 <2	<3	M	1	
	10	-					-						
	04 MAR	-					-					-	
	20 MAY	<.	04 <2	<1	<2	<2	? <	:2 <	2 <2	<1	< 5	5	
	28 AUG	-					-						
	05	-					-					-	

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 06935955 FEE FEE CREEK NEAR BRIDGETON, MO

LOCATION.--Lat 38°43'39", long 90°26'52", St. Louis County, Hydrologic Unit 10300200, on left abutment of old bridge at McKelvey Road, 0.17 mi west of Interstate 270, 0.92 mi north of Dorsett Road, and 0.65 mi upstream of Creve Coeur Creek.

DRAINAGE AREA. -- 11.7 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 451.99 ft above National Geodetic Vertical Datum of 1929. Prior to 1996 datum of gage 450.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 11, 1979 reached a stage of 21.62 ft, former datum, discharge 3,810 ft<sup>3</sup>/s.

		DISCHAF	RGE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.38 0.53 0.59 0.59	2.1 11 1.3 0.65 0.67	4.8 2.8 2.5 2.1 2.2	1.9 1.7 1.7 1.7	21 8.0 5.8 4.2 3.8	2.4 77 17 e5.5 6.4	3.7 4.2 3.3 2.9 2.9	4.5 6.4 3.5 5.1 2.8	3.4 2.8 3.3 2.4 119	5.0 2.9 2.1	0.96 1.0 3.4 1.2	0.87 0.72 0.58 0.80 0.85
6 7 8 9 10	3.5 0.88 0.73 1.7	0.81 0.98 8.1 0.98 0.76	4.1 2.1 1.7 1.5	3.4 e2.3 e2.0 2.3 2.6	3.5 5.2 3.0 2.8 7.3	5.5 4.3 3.9 65 6.2	2.8 5.8 51 9.9 4.1	47 256 131 211 12	8.0 4.2 3.3 4.8	1.5 1.6 1.1 1.7	153 9.7 4.9 2.5 1.5	0.66 0.77 0.96 0.72 1.1
11 12 13 14 15	129 25 20 5.2 46	0.74 0.72 0.75 0.89 1.0	1.5 61 13 65 9.1	2.2 2.0 2.3 2.1 2.0	3.2 2.5 2.2 2.1 2.1	5.2 5.3 4.1 3.7	3.6 4.3 3.6 10 3.5	7.7 332 242 17 9.6	359 13 7.1	1 0	1.2 1.4 12 16	
16 17 18 19 20	22 3.0 3.2 3.2 1.7	1.6 1.4 2.7 3.5 1.1	164 134 12 6.5 4.6	2.0 2.0 2.5 6.9 4.0	2.0 1.9 1.9 27 7.2	9.8 5.3 4.4 32 15	2.5 4.8 2.4 320 74		3.7 3.4 2.8 2.5 2.9	21 6.7 10 3.6 2.2	1.2 1.1 69 6.5 3.0	0.78 26 4.0 171 39
21 22 23 24 25	1.2 1.3 24 143 7.1	0.98 0.97 1.3 212 6.3	4.0 14 4.6 3.4 3.2	3.0 2.5 7.8 12 2.6			70 14 9.2 15 6.7	5.5 5.0 4.5 9.3 5.1		1.6 11 30 3.0 1.7	2.0 1.7 4.5 2.7 1.4	5.9 2.9 1.5 1.3
26 27 28 29 30 31	2.7 1.2 0.98 1.1 1.2	11 4.0 43 42 48	3.4 2.9 2.8 2.4 2.1 2.0	2.2 2.0 2.0 18 177 230	6.6 3.5 2.4 	37 11 7.3 6.8 5.1 4.1		4.0 3.5 26 8.5 5.0 4.2	3.2 2.2 1.9 1.7 1.5	2.2 4.6 1.3 1.0 1.2	1.1 1.5 1.2 1.2 1.0 0.87	1.1 1.4 1.8 1.6 1.6
MEAN MAX MIN IN.	20.2 143 0.38 1.99	13.7 212 0.65 1.31	17.4 164 1.5 1.72	16.4 230 1.7 1.62	5.15 27 1.9 0.46	17.2 106 2.4 1.69	26.3 320 2.4 2.51	51.6 332 2.8 5.09	33.6 391 1.5 3.20	4.20 30 1.0 0.41	11.0 153 0.87 1.09	9.10 171 0.56 0.87
STATIS	TICS OF M	ONTHLY MEA	N DATA FO	OR WATER Y	EARS 199	6 - 2002,	BY WATER	YEAR (WY	7)			
MEAN MAX (WY) MIN (WY)	10.0 20.2 2002 1.86 2000	16.4 49.1 1997 1.47 2000	7.30 17.4 2002 3.09 1999	15.3 25.7 1999 2.99 2000	22.1 39.6 1997 5.15 2002	16.7 34.2 1998 6.58 2000	16.4 26.6 1998 5.30 2000	21.1 51.6 2002 9.41 1999	22.8 42.0 1998 9.32 2001	8.91 20.3 1998 2.83 2000	9.24 15.7 1997 2.53 2001	7.69 15.2 1996 1.53 1999
SUMMAR	Y STATIST	ICS	FOF	R 2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER Y	EARS 1996	5 - 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU	I ANNUAL ANNUAL M I DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE		298 0.29 0.40	Feb Sep Sep	24 25 23	391 0.38 0.75 2640 <sup>a</sup> 14.71 0.34	Jun Oct Sep Jun Jun Oct 1	11 1 1 12 12 ,2	14.3 18.9 8.31 665 0.28 0.30 2640 <sup>a</sup> 17.45 0.28	Feb Sep Sep Jun Jun Sep	2002 2000 7 1999 22 1999 21 1999 12 2002 24 2000 15 1999, 25 2001
10 PER 50 PER	RUNOFF ( CENT EXCE CENT EXCE CENT EXCE	EDS EDS		12.77 25 2.5 0.64			21.95 44 3.3 1.0			16.57 29 2.6 0.86	2-E -11	

e Estimated  $^{\rm a}$  From rating extended above 1,130  ${\rm ft}^3/{\rm s}.$ 

# 06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 23	2100	ENVIRONM	ENTAL	132	6.4	69	7.4	422	17.5	150	40.5	10.8	83
DEC 11	0800	ENVIRONM	ENTAL	1.5	11.9	91	7.8	1200	3.4	370	97.0	31.4	208
FEB 04	1700	ENVIRONM	ENTAL	4.03	13.4	100	7.9	1450	3.0	360	96.0	29.0	216
MAR 19	0441	ENVIRONM	ENTAL	49	8.3	72	7.9	1060	8.8	260	72.0	20.0	137
MAY 29	1045	ENVIRONM	ENTAL	9.1	6.4	72	7.6	569	20.0	230	64.0	16.0	106
AUG 05 05	1605 1606	ENVIRONM REPLICAT		.94	6.6	90 	7.8	890 	29.9	260 260	69.0 69.0	22.0 22.0	140
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUSORTHOTOTAL(mg/Las P)(70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 23 DEC	82	100	0		1080	E2.1	.24	.390	.01	.140	E.92	6.0	15
11	208	254	0	191	E3	E.30	.03	.380	<.01	.110	E.13	5.8	18
FEB 04 MAR	216	264	0	250	4	.40	.05	1.40	.02	.070	.10	5.8	9
19 MAY	132	161	0		48	1.0	.10	.980	.05	.060	.17	3.3	20
29 AUG	106	129	0		5	.70	.12	.940	.05	.160	.19	4.8	22
05 05	143	174 	0		14 12	.70 .70	.08	.520 .530	.03	.140 .140	.17 .18	3.9	12 12
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 23 DEC	K3000	4400	K1800	148	2	<1	1.0	1.0	2.7	326	1	224	.1
11 FEB	88	K87	116	8	2	<1	1.0	1.0	2.2	74	<1	240	<.1
04 MAR	K5	K52	K52	<3	1	<1	<1.0	<1.0	1.2	20	<1	460	<.1
19 MAY	K100	380	1020	60	2	<1	<1.0	4.2	4.6	91	<1	472	<.1
29 AUG	3100	7000	17800	85	2	<1	<1.0	<1.0	3.7	223	<1	100	<.1
05 05	K30 K25	220 230	K58 K100	<3 <3	5 5	<1 <1	<1.0 <1.0	<1.0 <1.0	2.1 2.0	3 2	<1 <1	173 172	<.1 <.1

# 06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 23	3.3	<1	<1.0	46	<7	<3	<2	<3	<3.0	<3	<20	<3	<2
DEC 11	3.7	<1	<1.0	110									
FEB 04	3.1	2	<1.0	106									
MAR 19	4.7	1	<1.0	111	<7	<3	<2	<3	<.7	<3	<3	<3	<2
MAY 29	2.3	<1	<1.0	29									
AUG 05 05	3.3 3.0	1 2	<1.0 <1.0	2 2									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 23 DEC	<2	<2	<3	<3	<3	<2	<2	<3	<2	<2	<.01	М	<2
11 FEB													
04 MAR													
19 MAY	<2	<2	<1	<5	<3	<2	<2	<3	<2	<2	<.01	<2	<2
29 AUG													
05													
33													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)		BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT	-40	3.4	3.4	14	7.5	3.4	-3	<2	<2	<19	- 00	1 ر	- 01
23 DEC 11	<40	М	M	М	М	М	<3	<2	< <u>Z</u>	<19	<.02	<.1	<.01
FEB 04													
MAR 19	<40	<1	<2	<2	<2	<3	<3	<2	<2	<6	<.02	<.1	<.01
MAY 29													
AUG 05													
05													

# 06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued (Metropolitan Sewer District)

DATE	CHRY- SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (μg/L) (39398)
OCT 23	М	<2	<.02	E.01	<.006	М	М	М	<5	<.10	<.02	<.01	<.01
DEC 11													
FEB 04													
MAR 19	<3	<4	<.02	.08	E.004	<2	<2	<2	<5	<.50	<.02	<.01	<.01
MAY 29													
AUG 05													
05													
DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (µg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
OCT													
23 DEC	М	<2	<.01	<.009	<.01	<2	М	М	<.006	<.10	<.020	<.01	<.006
11 FEB													
04 MAR													
19 MAY	<2	<2	<.01	<.009	<.01	<2	<3	<2	.006	<.50	<.020	<.02	<.006
29 AUG													
05													
03													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT	<4	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
23 DEC	<b>&lt;</b> 4	<3		< 3								141	
11 FEB													
04 MAR													
19 MAY	<4	<3	<2	<2	E.004	.009	<.009	<3	<.01	<.1	<4	<2	<3.0
29 AUG													
05 05													

# 06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued (Metropolitan Sewer District)

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX- APHENE, TOTAL (µg/L) (39400)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34536)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (µg/L) (34396)	HEXA- CHLORO- BUT- ADIENE TOTAL (µg/L) (39702)	NAPHTH- ALENE TOTAL (μg/L) (34696)
OCT										
23	<.02	M	<1	<2	<2	<2	<2	<2	<3	<5
DEC										
11										
FEB										
04										
MAR										
19	<.04	<2	<1	<2	<2	<2	<2	<2	<1	<5
MAY										
29										
AUG										
05										
05										

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

258 MISSOURI RIVER MAIN STEM

### 06935965 MISSOURI RIVER AT ST. CHARLES, MO

LOCATION.--Lat  $38^{\circ}47^{\circ}08^{\circ}$ , long  $90^{\circ}28^{\circ}19^{\circ}$ , SE  $\frac{1}{4}$  sec. 29, R.47 N., R.5 E., St. Louis County, Hydrologic Unit 10300200, on right bank approximately  $\frac{1}{4}$  mi downstream from Highway 115 bridge, on the St. Charles Sand Company property.

DRAINAGE AREA.--524,000  $\mathrm{mi}^2$ . The 3,959  $\mathrm{mi}^2$  in Great Divide basin are not included.

PERIOD OF RECORD.--April 1, 2000 to current year. April 15, 1932 to October 1944 recording gage; Feb. 16, 1984 to Sept. 30, 1997 stage only operated by U.S.G.S.; Oct. 1, 1997 to April 1, 2000, stage only operated by U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage 413.472 ft above North American Vertical Datum of 1988. Prior to March 4, 1994 datum of gage was 413.58 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 2-3, 1993 reached a stage of 40.04 ft. by levels of good highwater mark.

		DISCHAR	GE, CUBIC	FEET PE		WATER Y	EAR OCTOBEI ALUES	R 2001 TC	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	59900 58100 56500 55200 56000	51800 49000 47700 48500 47300	55000 56000 53000 49800 47900	36100 35300 35700 35500 36300	118000 125000 107000 95800 86300	46700 48100 51900 50400 44100	52600 49600 46800 47500 52000	127000 109000 98300 94800 84100	118000 113000 112000 110000	61400 57400 54900 51800 50200	42300 41800 43800 43900 41400	50800 48100 45900 44400 43500
6 7 8 9 10	58300 59400 63200 62100 57400	45500 44900 46200 48200 47100	47500 46100 43000 40500 38700	37100 38400 35000 33400 35200	73200 64100 56000 53300 51100	44600 49400 48100 42800 40100	51800 50800 48800 48000 50100	70000 70500 178000 280000 307000	108000 108000 110000 110000 110000	49900 51400 50400 48200 47400	40000 37900 37000 36500 36000	43100 42700 42700 45700 46700
11 12 13 14 15	69700 87300 78100 72100 64300	45700 44900 44700 44400 44600	37100 36500 38100 42900 43100	35600 35200 31800 30000 30000	48500 40100 37900 42900 46800	39500 39200 40200 42100 41500	50800 51000 55800 58500 54200	307000 300000 321000 345000 347000	108000 115000 145000 160000 148000	55000 62000 59600 57900 55100	35900 36100 36900 39400 41100	44500 47600 49100 43800 41700
16 17 18 19 20	55900 57600 70400 75300 79000	45300 44800 44300 43900 43500	43800 54900 66200 63000 60500	30400 30500 30200 30500 31300	47700 48000 45500 39600 38500	40200 38200 36700 36300 37900	51200 53000 54800 52300 55300	339000 326000 304000 267000 210000	132000 120000 118000 113000 106000	51500 51100 54800 51000 50900	42800 40800 40200 44500 60600	40800 40900 41300 42600 43800
21 22 23 24 25	71000 60500 53800 51600 50300	43200 42900 42900 46000 51500	60900 61200 53400 45000 40500	32500 34000 33700 34600 34600	43600 46200 50200 57400 55100	43700 50400 56800 61100 54000	81600 99500 92300 105000 101000	176000 160000 141000 124000 126000	101000 98400 96400 94700 e92200	51500 50800 46900 45200 49500	60300 57600 52300 52400 53500	43500 44000 43800 42800 41700
26 27 28 29 30 31	51000 51300 50600 50400 49400 49400	50300 47400 47100 48300 50900	38400 38000 37900 38000 38400 37600	34100 35700 35500 34100 33500 47300	46300 42100 43300 	47700 50400 58700 60500 57200 55100	81500 72300 82400 116000 130000	133000 147000 163000 153000 142000 128000	87900 84900 85200 82700 71300	48000 43200 41000 43700 46300 46200	53700 51500 50400 58600 61600 54800	41000 41200 41300 40300 39200
MEAN MAX MIN	60810 87300 49400	46430 51800 42900	46870 66200 36500	34290 47300 30000	58910 125000 37900	46890 61100 36300	66550 130000 46800	196100 347000 70000	109000 160000 71300	51100 62000 41000	45990 61600 35900	43620 50800 39200
STATIST	CICS OF MO	ONTHLY MEA	N DATA FO	R WATER	YEARS 200	0 - 2002	, BY WATER	YEAR (WY	")			
MEAN MAX (WY) MIN (WY)	54460 60810 2002 48120 2001	48330 50230 2001 46430 2002	39230 46870 2002 31590 2001	33150 34290 2002 32000 2001	71860 84820 2001 58910 2002	87940 129000 2001 46890 2002	80520 121100 2001 53880 2000	125500 196100 2002 59440 2000	129300 202100 2001 76770 2000	76870 104600 2001 51100 2002	56680 65550 2001 45990 2002	50460 62060 2001 43620 2002
SUMMARY	STATISTI	ICS	FOR	2001 CA	LENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 2000	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	ANNUAL N	EAN EAN AN MINIMUM OW AGE OW FLOW EDS EDS		89530 303000 25100 26100  155000 73500 38100	Jun Jan Jan	1	347000 30000 30400 350000 31.69 29700 115000 50200 37000	May Jan 14, Jan May May Jan	15 15 14 15 15 15	77370 87470 67280 347000 24700 25600 350000 31.69 24600 143000 53000 35500	May 1 Dec 3 Dec 3 May 1 May 1 Dec 26,3	2001 2002 .5 2002 31 2000 .5 2002 .5 2002 .5 2002 31 2000

e Estimated

### 06935980 COWMIRE CREEK AT BRIDGETON, MO

LOCATION.--Lat 38°45'50", long 90°25'59", St. Louis County, Hydrologic Unit 10300200, on left bank of bridge at Kirchner Brick Co., 1.11 mi west of Interstate 70 and 270 interchange, 1.7 mi south of State Highway 370, 0.16 mi north of County Highway A (St Charles Rock Road), and 6.29 mi upstream of the Missouri River.

DRAINAGE AREA.--3.74 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 464.46 ft above National Geodetic Vertical Datum of 1929. Prior to May 1997, at datum 464.55 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for discharges below  $0.5~{\rm ft}^3/{\rm s}$  and above  $300~{\rm ft}^3/{\rm s}$ , which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 11, 1979 reached a stage of 13.86 ft, former datum, discharge, 2,500 ft<sup>3</sup>/s.

		DISCHAF	RGE, CUBIC	C FEET PER		WATER YE MEAN V	EAR OCTOBER ALUES	R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.18 0.20 0.13 0.13	0.34 2.2 0.30 0.24 1.4	1.2 0.76 0.70 0.61 0.57	0.61 0.54 0.51 0.48 0.59	3.8 2.0 1.5 1.3	0.65 26 4.1 2.2 1.8	1.3 1.2 1.0 1.0	1.4 1.8 1.4 1.2	1.0 0.98 0.93 0.93	0.70 0.66 0.66 0.63 0.66	0.20 0.20 0.19 0.17 5.6	0.35 0.35 0.40 0.29 0.64
6 7 8 9 10	0.51 0.24 0.18 0.20 44	0.24 0.15 0.23 0.17 0.19	0.95 0.51 0.42 0.36 0.35	1.2 0.93 0.77 0.80 0.83	1.2 1.1 1.0 1.00 2.5	1.3 1.2 1.1 16 1.4	0.96 1.9 14 1.9 1.2	13 67 30 49 2.5	1.5 1.2 0.95 1.4 8.2	0.83 0.64 0.61 0.62 0.74	173 1.4 0.51 0.48 0.47	0.22 0.25 0.21 0.34 0.29
11 12 13 14 15	50 3.8 4.4 0.66 17	0.19 0.18 0.15 0.15 0.15	0.35 17 2.3 21 4.0	0.65 0.62 0.68 0.71 0.70	0.98 0.93 1.1 0.90 0.93	1.2 1.3 1.3 1.1 9.2	1.1 1.3 0.97 0.98 0.87	1.9 98 53 3.7 2.4	122 137 2.8 1.7 1.3	0.63 0.75 0.51 0.37 0.36	0.44 1.3 2.0 3.6 0.45	0.15 0.19 0.23 0.23 0.56
16 17 18 19 20	3.3 0.44 0.28 0.25 0.19	0.15 0.15 1.1 1.5 0.58	49 31 2.2 1.4 1.1	0.69 0.65 1.0 2.3 1.0	0.93 0.80 0.63 7.4 1.8	1.7 1.1 1.0 7.7 3.1	0.78 1.2 0.79 135 14	13 37 4.0 2.3 2.0	1.2 1.0 0.93 0.93	1.8 0.77 1.6 0.51 0.43	0.34 0.37 23 1.3 1.1	0.19 6.7 0.50 121 11
21 22 23 24 25	0.19 0.19 12 19 1.0	0.42 0.41 0.47 70 1.4	0.94 3.4 1.1 0.94 0.84	0.98 0.79 2.9 1.8 0.88	0.84 0.70 0.62 0.62 1.9	1.4 1.2 1.2 3.8 24	16 2.2 1.9 2.3 1.4	1.6 1.5 1.5 4.2 1.5	0.88 0.85 0.81 25 2.5	0.31 0.71 3.0 0.37 0.33	0.91 0.61 3.0 0.64 0.48	1.1 0.62 0.48 0.35 0.37
26 27 28 29 30 31	0.60 0.44 0.33 0.30 0.38 0.31	2.5 0.71 14 12 16	0.73 0.69 0.69 0.67 0.69	0.82 0.71 0.74 4.1 44 57	1.3 0.98 0.85 	10 2.5 1.8 2.2 1.8 1.4	1.3 34 2.8 1.6 1.4	1.3 1.3 6.6 1.5 1.3	1.3 0.96 0.93 0.91 0.80	2.1 0.36 0.22 0.21 0.20 0.21	0.41 0.38 0.35 0.38 0.45 0.35	0.40 0.39 0.37 0.29 0.37
MEAN MAX MIN IN.	5.74 50 0.13 1.79	4.26 70 0.15 1.28	4.75 49 0.35 1.48	4.22 57 0.48 1.32	1.46 7.4 0.62 0.41	4.38 26 0.65 1.36	8.24 135 0.78 2.49	13.2 98 1.1 4.11	11.5 137 0.80 3.48	0.73 3.0 0.20 0.23	7.23 173 0.17 2.25	4.96 121 0.15 1.50
							, BY WATER					
MEAN MAX (WY) MIN (WY)	2.69 5.74 2002 1.44 1998	2.57 4.26 2002 0.84 2000	2.04 4.75 2002 0.75 1999	4.01 8.86 1999 0.84 2000	5.69 11.3 1999 1.46 2002	4.26 9.35 1998 1.57 2001	6.30 12.9 1998 1.66 2000	6.89 13.2 2002 2.45 2001	7.98 11.8 2000 3.48 1997	4.22 10.4 1998 0.73 2002	3.01 7.23 2002 1.14 1999	2.23 4.96 2002 0.57 1999
SUMMARY	STATIST	ICS	FOR 2	2001 CALEN	IDAR YEAR	I	FOR 2002 W	ATER YEAR		WATER Y	TEARS 1997	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN INSTANT ANNUAL 10 PERC	CANNUAL MANNUAL MEDAILY MEDAIL	EAN EAN AN Y MINIMUM OW AGE OW FLOW INCHES) EDS EDS		) 5 Aug 19-2 - - - - 9	Jun 27 11,Sep 3,7 Sep 11		173 0.13 0.16 2990 <sup>a</sup> 15.05 0.10 21.70 13 0.96 0.24	Aug 6 Oct 3,4 Nov 11 Aug 6 Aug 6 Oct 10	2. 20. 0. 29 15. 0.	91 63 40 05 Aug 19 07 990 <sup>a</sup> 05 04 28 .6	-21,Sep 3 Oct Aug Aug	2002 2001 7 1999 8,7 2001 27 1999 6 2002 6 2002 6 2001

 $<sup>^{\</sup>rm a}$  From rating extended above 100 ft $^{\rm 3}/{\rm s}$ .

# 06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 05 05	0555 0556	ENVIRONM REPLICAT		27	8.3	84	7.6	186 	14.7	200 200	47.4 49.4	18.8 19.0	101
DEC 11	1040	ENVIRONM	ENTAL	.35	10.2	97	7.9	1350	12.7	510	119	52.3	282
FEB 05	1030	ENVIRONM	ENTAL	1.2	11.8	85	7.8	1210	1.7	510	121	50.0	313
MAR 25	0038	ENVIRONM	ENTAL	40	11.5	91	7.9	313	4.3	200	51.0	18.0	128
MAY 29	1600	ENVIRONM	ENTAL	1.3	7.7	88	7.9	890	20.7	340	85.0	31.0	182
AUG 08	1240	ENVIRONM	ENTAL	.41	5.9	68	7.3	479	21.9	180	48.0	15.0	110
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 05 05	101	123	0		170 186	E2.5 E2.9	.20	.950 .950	.05	.170 .180	.55 .55	4.8	39 39
DEC 11	284	347	0	225	E2	E.20	.02	.090	.02	.060	E.10	7.0	20
FEB 05	319	389	0	270	12	.30	<.01	.850	<.01	.040	.07	8.7	11
MAR 25	129	157	0		74	1.4	.27	1.20	.05	.050	.18	3.3	22
MAY 29	183	224	0		8	.60	.09	1.10	.06	.070	.09	4.2	18
AUG 08	112	137	0		60	.90	.10	.890	.08	.210	. 29	11	15
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 05 05 DEC	37000 	32000	5600 	48 55	2 2	<1 <1	1.0	1.1	3.7 3.3	116 115	<1 <1	127 116	<.1 <.1
11	48	K174	310	<3	<1	1	1.0	1.0	1.1	56	<1	243	<.1
05 MAR	150	54	K243	<3	<1	<1	<1.0	<1.0	<1.0	26	<1	601	<.1
25	2900	3200	K23400	71	2	<1	<1.0	2.4	4.0	87	<1	316	<.1
MAY 29	190	K1440	580	16	2	<1	<1.0	<1.0	2.0	36	<1	131	<.1
AUG 08	K180	2500	700	6	3	<1	<1.0	<1.0	2.1	4	<1	112	<.1

# 06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 05 05	2.7 2.6	<1 <1	<1.0 <1.0	76 70	<7 <7	M M	<2 <2	<3 <3	<3.0 <3.0	<3 <3	E3 E3	<3 <3	<2 <2
DEC 11	2.4	1	<1.0	115									
FEB 05	2.6	<1	<1.0	93									
MAR 25	2.6	<1	<1.0	87	<7	М	<2	<3	E.2	<3	E5	<3	<2
MAY 29	2.7	<1	<1.0	27									
AUG 08	2.3	1	<1.0	<2									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLITRD RECOVER (µg/L) (34447)
OCT 05 05	<2 <2	<2 <2	M M	<3 <3	M M	<2 <2	<2 <2	E1 E1	M M	<2 <2	<.01 <.01	M M	<2 <2
DEC 11													
FEB 05													
MAR 25	<2	<2	М	<5	E1	<2	<2	E3	М	M	<.01	М	<2
MAY 29													
AUG 08													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO-PHEMO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 05 05 DEC	<40 <40	M M	E1 E1	M M	M M	E1 E1	<3 <3	<2 <2	<2 <2	E2 E3	<.02 <.02	<.1 <.1	<.01 <.01
11 FEB													
05 MAR													
25 MAY	<40	М	E1	М	М	M	<3	<2	<2	E4	<.02	<.1	<.01
29 AUG													
08													

# 06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued (Metropolitan Sewer District)

DATE	CHRY- SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
OCT 05 05 DEC	M M	<2 <2	<.02 <.02	.02 E.02	<.006 <.006	3	M M	M M	M M		<.02 <.02	<.01 <.01	<.01 <.01
11													
05 MAR													
25	M	<4	<.02	.03	<.006	М	М	<2	<5	<.30	<.02	<.01	<.01
MAY 29													
AUG 08													
DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (µg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
OCT 05 05	E1 E2	M M	<.01 <.01	<.009 <.009	<.01 <.01	<2 <2	E1 E1	M M	<.006 <.006	<.10 <.10	<.020 <.020	<.01 <.01	<.006 <.006
DEC 11													
FEB 05													
MAR 25	E2	М	<.01	<.009	<.01	<2	М	М	<.006	E.03	<.020	<.02	<.006
MAY 29													
AUG 08													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 05 05 DEC	M M	<3 <3	<2 <2	<3 <3	<.007 <.007	<.006 <.006	<.009 <.009	<3 <3	<.01 <.01	<.1 <.1	M M	M M	<3.0 <3.0
11 FEB													
05 MAR													
25 MAY	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
29 AUG													
08													

# 06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued (Metropolitan Sewer District)

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX- APHENE, TOTAL (µg/L) (39400)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34536)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (µg/L) (34396)	HEXA- CHLORO- BUT- ADIENE TOTAL (µg/L) (39702)	NAPHTH- ALENE TOTAL (μg/L) (34696)
OCT										
05	<.06	E1	<1	<2	M	<2	<2	<2	<3	M
05	<.06	E1	<1	<2	M	<2	<2	<2	<3	M
DEC										
11										
FEB										
05										
MAR										
25	<.02	E1	<1	<2	M	<2	<2	<2	<1	<5
MAY										
29										
AUG										
08										

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 06935997 MILL CREEK NEAR FLORISSANT, MO

LOCATION.--Lat 38°50'54", long 90°17'10", St. Louis County, Hydrologic Unit 10300200, on right downstream wingwall of Old Jamestown Road bridge, 2.50 mi west of U.S. 367 and 67 (Lewis and Clark Blvd.), 2.08 mi north of U.S. Route 67 (Lindbergh Blvd.), and 1.70 mi upstream of the Missouri River.

DRAINAGE AREA. -- 2.12 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 432.34 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges and those below 1  $\mathrm{ft}^3/\mathrm{s}$  and above 1,000  $\mathrm{ft}^3/\mathrm{s}$ , which are poor.

		DISCHA	RGE, CUBIO	C FEET PER		WATER YE MEAN VA	AR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.06 0.06 0.06 0.05 2.8	0.20 0.53 0.30 0.24 0.24	e1.0 e0.74 e0.56 e0.47 e0.37	0.36 0.36 0.38 0.38 0.45	3.1 1.4 1.1 0.87 0.81	1.1 7.5 1.8 1.1 1.5	0.68 0.65 0.60 0.57 0.57	0.50 0.47 0.39 0.37 0.33	0.82 0.78 0.70 0.65 4.7	0.46 0.47 0.48 0.47 0.50	0.21 0.22 0.23 0.20 0.19	0.17 0.15 0.13 0.13 0.13
6 7 8 9 10	0.24 0.10 0.06 0.08 8.9	e0.22 e0.21 e0.21 e0.22 e0.25	e0.60 e0.53 e0.47 e0.43 e0.39	0.58 0.47 0.46 0.43 0.43	0.77 0.71 0.63 0.64 1.5	0.96 0.83 1.0 4.7 0.96	0.57 0.70 3.8 1.2 0.66	5.8 39 10 18 2.6	0.88 0.67 0.62 0.60 2.0	0.50 0.51 0.52 0.57 0.61	3.4 0.19 0.16 0.16 0.16	0.13 0.13 0.14 0.13 0.10
11 12 13 14 15	17 4.8 2.4 0.67 3.3	e0.27 e0.26	6.2	0.37 0.44 0.45 0.50 0.44	0.95 0.85 0.75 0.77 0.81	0.81 0.79 0.66 0.69 1.4	0.72	2.2 176 42 3.4 2.4	37 31 2.1 1.4 0.95	0.63 1.0 0.64 0.56 0.50	7.2 0.51 0.25 0.67 0.27	0.12 0.13 0.14 0.14 0.23
16 17 18 19 20	2.8 0.39 0.24 0.21 0.16	e0.26 e0.25 e0.26 e0.42 e0.30	13 12 1.7 0.96 0.79	0.41 0.39 0.38 0.88 0.56	0.74 0.71 0.74 2.4 1.6	0.85 0.66 0.56 1.8 1.0	0.60 0.72 0.58 9.2 4.6	11 16 3.5 2.0 1.6	0.84	0.52 0.57 0.55 0.46 0.43	0.62 0.24 2.5 0.79 0.26	0.14 0.49 0.19 27 2.1
21 22 23 24 25	0.16 0.16 1.2 6.0 0.81	e0.28	0.67 1.1 0.71 0.58 0.50	0.52 0.52 0.98 1.1 0.48	1.1 0.63 0.57 0.57 2.0	0.64 0.55 0.61 0.73 4.8	5.8 0.96 0.68 0.63 0.48	1.4 1.3 1.3 1.5	0.59 0.57 0.55 0.53	0.41 0.38 0.50 0.33 0.28	0.23 0.20 0.79 0.35 0.27	0.23 0.11 0.10 0.12 0.10
26 27 28 29 30 31	0.36 0.24 0.15 0.14 0.13	e1.0 e0.55 e7.8 e3.1 e6.0	0.49 0.53 0.56 0.46 0.39 0.36	0.43 0.43 0.43 0.86 11 22	1.3 1.2 1.2 	4.9 2.6 1.4 1.3 0.91 0.79	0.44 5.7 0.94 0.56 0.48	1.3 1.2 1.2 1.1 0.96 0.87	0.50 0.52 0.44 0.48 0.45	0.39 0.27 0.26 0.25 0.25	0.25 0.25 0.23 0.24 0.22 0.20	0.10 0.10 0.10 0.11 0.10
MEAN MAX MIN	1.74 17 0.05	2.34 45 0.20	1.83 13 0.36	1.54 22 0.36	1.09 3.1 0.57	1.61 7.5 0.55	1.52 9.2 0.44	11.3 176 0.33	3.16 37 0.44	0.47 1.0 0.21	0.70 7.2 0.16	1.11 27 0.10
STATIS	TICS OF M	ONTHLY MEA	AN DATA FO	OR WATER Y	EARS 1997	- 2002,	BY WATER	YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	1.20 3.05 2001 0.24 1998	1.01 2.34 2002 0.32 2000	0.75 1.83 2002 0.42 2001	1.60 3.70 1999 0.30 2000	2.54 6.73 1999 1.09 2002	1.83 4.56 1998 0.57 2000	2.46 5.02 1998 0.52 2000	4.92 11.3 2002 0.46 2001	2.83 5.92 1998 0.72 2001	1.38 3.28 1998 0.47 2002	1.11 1.72 1998 0.70 2002	0.73 1.11 2002 0.33 1998
SUMMAR	Y STATIST	CICS	FOR	R 2001 CAL	ENDAR YEA	R	FOR 2002	WATER YE	AR	WATER YE	ARS 1997	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				1.31 55 0.03 0.05  2.3 0.39 0.06	Apr 1 Aug 1,6- Jul 2	0 8 6	2.38 176 0.05 0.10 2020 <sup>a</sup> 9.13 0.04 3.4 0.57 0.16	May Oct Sep May May Oct 3	12 4 22 12 12 -5	1.89 2.65 1.18 215 0.03 0.05 2780 <sup>a</sup> 10.53 0.02 2.5 0.44 0.15		6 2001 1 1999 1 1999

e Estimated  $^{\rm a}$  From rating extended above 870  ${\rm ft}^3/{\rm s}$ .

### 06936475 COLDWATER CREEK NEAR BLACK JACK, MO

LOCATION.--Lat 38°49'04", long 90°15'04", in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.17, T.47 N., R.7 E., St. Louis County, Hydrologic Unit 10300200, on right downstream abutment of Old Jamestown Road bridge, 0.36 mi south of U.S. Route 67 (Lindbergh Blvd.), 1.1 mi west of Highway 367 (Lewis and Clark Blvd.), and 3.8 mi upstream of the Missouri River.

DRAINAGE AREA. -- 40.4 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1996 to current year.

GAGE. -- Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Water-discharge records fair except for estimated daily discharges and those below 5  $\rm ft^3/s$  and above 2,500  $\rm ft^3/s$ , which are poor.

		DISCHAF	RGE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.1 2.1 2.1 2.1 143	3.5 30 8.3 3.3 3.3	20 13 10 8.3 7.3	3.8 3.8 4.3 5.0 5.6	84 31 24 18 15	9.5 233 41 22 21	15 14 12 10 10	e18 e42 e17 e22 e14	9.7 8.9 8.4 8.6 271	4.2 5.1 39 16 4.9	4.3 3.2 3.6 3.0 4.1	2.2 2.0 1.8 1.7
6 7 8 9 10	15 3.6 2.1 2.0 399	3.5 2.9 2.9 2.9 3.0	13 8.0 6.4 5.3 4.9	9.5 8.8 6.2 6.6 7.1	14 13 11 10 23	20 15 14 208 23	11 12 154 52 e17	e136 e961 e583 497 41	21 10 7.9 12 106	3.4 2.9 2.6 4.9 6.6	833 10 5.4 3.8 3.0	1.9 1.9 2.0 1.7
11 12 13 14 15	396 183 42 20 80	3.0 2.5 2.6 2.8 3.3	5.4 146 72 243 25	6.6 5.4 5.0 5.3 5.4	9.7 9.1 8.6 9.0	18 17 14 13 119	e12 e21 e15 e13 e8.7	27 1350 1030 63 34	989 1470 54 21 14	4.5 8.1 7.1 3.5 3.0	47 11 6.3 35 7.2	1.9 2.5 2.2 2.1 2.7
16 17 18 19 20	129 12 6.9 5.7 5.8	3.3 3.1 2.8 17 7.0	476 498 48 28 19	4.3 4.2 3.6 17	9.2 8.9 8.9 75 29	42 17 14 71 48	e9.2 e11 e7.7 e602 e219	164 375 74 32 24	11 10 9.9 8.3 7.8	3.1 41 61 14 4.5	4.5 3.7 164 40 9.4	3.0 34 19 496 107
21 22 23 24 25	5.6 5.6 35 321 26	4.8 4.5 4.2 693 15	15 39 18 11 8.6	5.8 5.5 6.6 48 6.8	12 8.9 8.2 7.7	19 15 14 16 272	e195 e48 e25 e30 e20	20 18 15 29 19	7.6 7.4 7.1 26 49	3.4 3.1 33 6.4 3.7	5.5 4.5 26 12 4.1	9.9 3.1 2.2 2.0 1.6
26 27 28 29 30 31	9.0 6.0 4.5 4.6 4.3	21 17 137 99 226	7.7 7.7 7.3 6.5 4.6 4.0	5.3 4.8 4.7 31 427 723	26 10 10 	117 44 28 27 22 17	e15 e357 e105 e31 e22	13 11 40 34 13	9.4 5.9 5.5 4.9 5.0	15 8.1 3.3 3.0 3.7 6.0	3.4 3.3 3.2 2.9 4.8 2.8	1.4 2.0 1.9 2.2 1.8
MEAN MAX MIN IN.	60.6 399 2.0 1.73	44.4 693 2.5 1.23	57.6 498 4.0 1.64	45.1 723 3.6 1.29	18.6 84 7.7 0.48	50.7 272 9.5 1.45	69.1 602 7.7 1.91	185 1350 11 5.28	106 1470 4.9 2.93	10.6 61 2.6 0.30	41.1 833 2.8 1.17	23.9 496 1.4 0.66
							BY WATER					
MEAN MAX (WY) MIN (WY)	31.0 60.6 2002 14.8 2000	37.9 95.6 1997 7.37 2000	21.2 57.6 2002 8.59 1999	39.5 79.3 1999 8.25 2000	72.7 173 1999 18.6 2002	47.8 118 1998 14.9 2000	52.2 82.3 1998 17.3 2000	78.2 185 2002 27.0 2001	81.6 123 2000 23.2 1997	41.7 109 1998 10.6 2002	29.1 44.5 1998 17.0 1996	20.5 25.8 1996 6.60 1999
SUMMARY	STATISTI	ICS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 1996	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			37.0 871 2.0 2.1  12.45 95 7.5 2.7	Apr Oct Sep	9	59.7 1470 1.4 1.8 6740 <sup>a</sup> 9.02 1.3 20.07 132 10 2.9	Jun Sep Sep Jun Jun Sep	26 4 12 12	46.0 59.7 30.3 4030 1.4 1.8 13000 <sup>a</sup> 11.46 0.75 15.46 8.3 3.1	Sep Sep May May	2002 2001 7 1999 22 1996 4 2002 7 2000 7 2000 29 1997	

e Estimated  $^{\rm a}$  From rating extended above 1,250 ft $^{\rm 3}/{\rm s}$ .

# 06936475 COLDWATER CREEK NEAR BLACK JACK, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

DATE	TIME	SAMPLE TYPE	:	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 10	0924	ENVIRONM	IENTAL	1640	7.1	75	7.8	129	17.1	45	13.2	3.01	38
DEC 10	1445	ENVIRONM	IENTAL	4.8	9.2	76	8.0	1130	6.4	370	89.5	36.7	245
FEB 04	1515	ENVIRONM	IENTAL	17	8.4	64	6.9	1170	3.8	390	93.0	38.0	193
MAR 09	0442	ENVIRONM	IENTAL	189	1.1	11	7.4	3	11.8	370	87.0	36.0	302
MAY 28 AUG	1545	ENVIRONM	IENTAL	11	6.3	73	7.7	900	21.4	380	109	25.0	206
05	1415	ENVIRONM	IENTAL	3.2	7.6	104	7.8	641	31.0	220	55.0	19.0	145
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 10 DEC	38	46	0		861	E2.4	.05	.440	<.01	.200	1.00	1.3	17
10 FEB	245	299	0	157	E3	E.40	.07	.800	.02	.090	E.12	5.2	20
04 MAR	196	239	0	200	2	.50	.02	1.60	.03	.040	.08	47	11
09 MAY	301	368	0		134	3.1	.25	<.020	<.01	<.010	.20	21	90
28 AUG	209	255	0		17	.60	.08	1.00	.06	.060	<.02	7.9	13
05	147	179	0		10	.80	.14	.230	.03	.140	.18	4.4	20
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 10	11000	21500	20000	452	2	<1	1.0	1.1	6.5	612	2	67	.1
DEC 10	K20	54	K18	19	2	<1	1.0	1.0	1.7	65	<1	158	<.1
FEB 04	K27	100	40	9	1	<1	<1.0	<1.0	1.3	19	<1	218	<.1
MAR 09	<200	K500	К667	15	4	<1	<1.0	6.4	1.5	42	<1	1100	<.1
MAY 28	200	K320	190	29	2	<1	<1.0	<1.0	<1.0	58	<1	271	<.1
AUG 05	K10	48	76	<3	5	<1	<1.0	<1.0	1.6	4	<1	154	<.1

# 06936475 COLDWATER CREEK NEAR BLACK JACK, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 10	1.7	<1	<1.0	20	<7	М	<2	<3	<3.0	<3	<20	<3	<2
DEC 10	3.3	2	<1.0	17									
FEB 04	2.1	3	<1.0	100									
MAR 09	4.6	3	<1.0	124	<7	М	<2	<3	<.7	<3	<3	<3	<2
MAY 28	2.1	<1	<1.0	22									
AUG 05	3.5	1	<1.0	<2									
DATE	2- CHLORO- NAPH- THALENE TOTAL	2- CHLORO- PHENOL TOTAL	2- NITRO- PHENOL TOTAL	3,3'- DI- CHLORO- BENZI- DINE TOTAL	4,6- DINITRO -ORTHO- CRESOL TOTAL	4- BROMO- PHENYL PHENYL ETHER TOTAL	4- CHLORO- PHENYL PHENYL ETHER TOTAL	4- NITRO- PHENOL TOTAL	ACE- NAPHTH- ENE TOTAL	ACE- NAPHTH- YLENE TOTAL	ALDRIN, TOTAL	ANTHRA- CENE TOTAL	BENZENE NITRO- WATER UNFLTRD RECOVER
	(μg/L) (34581)	(μg/L) (34586)	(µg/L) (34591)	(µg/L) (34631)	(µg/L) (34657)	(µg/L) (34636)	(µg/L) (34641)	(µg/L) (34646)	(µg/L) (34205)	(µg/L) (34200)	(µg/L) (39330)	(µg/L) (34220)	(μg/L) (34447)
OCT 10 DEC	<2	<2	М	<3	М	<2	<2	<3	М	M	<.01	М	<2
10 FEB													
04 MAR													
09 MAY	<2	<2	<1	<5	<3	<2	<2	<3	М	<2	<.01	М	<2
28 AUG													
05													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
ОСТ 10	DINE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	ANTHRA- CENE WATER UNFLTRD REC (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L)	CHLORO- ETHOXY) METHANE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L)	PHENO- THION WATER UNFLTRD (µg/L)	DANE, TECH- NICAL TOTAL (µg/L)	PYRIFOS TOTAL RECOVER (µg/L)
OCT 10 DEC 10	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10 DEC 10 FEB 04	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10 DEC 10 FEB 04 MAR 09	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)  E1	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10 DEC 10 FEB 04 MAR 09 MAY 28	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247) E1	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E1	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 10 DEC 10 FEB 04 MAR 09	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247) E1	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01  <.01
OCT 10 DEC 10 FEB 04 MAR 09 MAY 28	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (μg/L) (34247) E1   M	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01  <.01
OCT	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  E1  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLIRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E2 M DEF TOTAL (µg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M AZINON, TOTAL (µg/L) (39570)	ANTHRA- CENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2  <2   DI-N-BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1  ENDRIN WATER UNFLTRD REC (µg/L) (39390)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.TOTAL (µg/L) (38932)
OCT	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  E1	A- PYRENE TOTAL (µg/L) (34247)  E1  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E2 M DEF TOTAL (µg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M M AZINON, TOTAL (µg/L)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <1 METHYL PHTHAL-ATE TOTAL (µg/L)	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 SUBJECT OF THE PROPER CONTROL OF THE PROPER CONTROL OF THE PROPER CONTROL OF THE PROPER M M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <6 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO-THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLTRD REC (µg/L)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  E1  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLIRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E2 M DEF TOTAL (µg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M M AZINON, TOTAL (µg/L) (39570)	ANTHRA- CENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2  <2   DI-N-BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 OCTYL PHTHAL ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1  ENDRIN WATER UNFLTRD REC (µg/L) (39390)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 ETHION, TOTAL (µg/L) (39398)  <.01
OCT	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  E1	A- PYRENE TOTAL (μg/L) (34247)  E1  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (μg/L) (34230)  E2 M DEF TOTAL (μg/L) (39040)  E.01	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  M  AZINON, TOTAL (μg/L) (39570)  .18	ANTHRA- CENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)  <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL-ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01  ETHION, TOTAL (µg/L) (39398)  <.01
OCT	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  E1	A-PYRENE TOTAL (µg/L) (34247)  E1  M  CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E2 M DEF TOTAL (µg/L) (39040)  E.01	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M DI- AZINON, TOTAL (µg/L) (39570)	ANTHRA- CENE WATER WATER UNFLIRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3  METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLTRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 ETHION, TOTAL (µg/L) (39398)  <.01
OCT	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  E1	A- PYRENE TOTAL (µg/L) (34247)  E1  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2 <4	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E2 M DEF TOTAL (µg/L) (39040)  E.01 <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M  M  DI- AZINON, TOTAL (µg/L) (39570)  .1821	ANTHRA- CENE WATER WATER UNFLTRD REC (µg/L) (34526)  M DI- ELDRIN TOTAL (µg/L) (39380)  <.006 <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E1 M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M < < < < - M   C2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M <2	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 SUBJECT OF THE STATE OF THE STAT	CHLORO- ISO- PROPYIL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2 OI-N- OCTYL PHTHAL ATE TOTAL (µg/L) (34596)  M <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <6 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  < < < < < < < < <-	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 ETHION, TOTAL (µg/L) (39398)  <.01 <.01

# 06936475 COLDWATER CREEK NEAR BLACK JACK, MO--Continued (Metropolitan Sewer District)

DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403	ISO- PHORON TOTAL (µg/L	TOTAL (µg/L)	TOTAL (µg/L)	METH- OXY- CHLOR, TOTAL (μg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (μg/L) (39755)
OCT 10	E2	М	<.01	<.009	<.01	<2	E2	М	<.006	<.20	<.020	<.01	<.006
DEC 10 FEB													
04													
MAR 09 MAY	М	М	<.01	<.009	<.01	<2	М	<2	<.006	<.10	<.015	<.02	<.006
28 AUG													
05													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370	(µg/L	PARA- L PARA- L THION, TOTAL (µg/L)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 10 DEC	М	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
10 FEB													
04													
MAR 09	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
MAY 28													
AUG 05													
	DATE	РНОR ТОТ ( µg ( 390	'AL TOT (μg	AL TOT (μg	X- CHLO NE, WAT AL RE /L) (µg	4- 1,3- I- CHLC RO- WAT UNF UNFI C RE /L) (µg	DI- 1,4 DRO- CHI TER WA TTRD UNI EC I	1-DI- C LORO- CH ATER W FLTRD UN REC 1g/L) (	D-DI- HE ILORO- CHI IATER WA IFLTRD UNF REC REC μg/L) (μ	IANE IXA- HEX ORO- CHLC TTER BUT LTRD ADIE OVER TOT g/L) (µg 396) (397	DRO- F- NAPH ENE ALE FAL TOT [/L) (µg	NE AL /L)	
	OCT 10	<.	02 E2	<1	<2	<2	2 .	<2	<2 <	2 <3	3 M	1	
	10	-										-	
	FEB 04	-										-	
	MAR 09	<.	02 M	i <1	<2	<2	2 .	<2	<2 <	2 <1	L <5	;	
	MAY 28	-											
	AUG 05	-										-	

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 06936530 SPANISH LAKE TRIBUTARY NEAR BLACK JACK, MO

LOCATION.--Lat 38°48'04", long 90°12'59", in SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.22, T.47 N., R.7 E., St. Louis County, Hydrologic Unit 10300200, on left downstream wingwall of Bellefontaine Ave. bridge, 2.14 mi north of Interstate 270, 0.65 mi east of Highway 367 (Lewis and Clark Blvd.), and 1.9 mi upstream of the Missouri River.

DRAINAGE AREA.--0.25 mi<sup>2</sup>.

PERIOD OF RECORD. -- August 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 502.33 ft above National Geodetic Vertical Datum of 1929. REMARKS. -- Records poor.

. 110001	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	0.00 0.00 0.00 0.00 0.58	0.01 0.17 0.04 0.04 0.04	0.13 0.08 0.06 0.05 0.04	e0.06 e0.05 e0.04 e0.03 0.08	0.76 0.35 0.27 0.18 0.14	0.09 1.7 0.61 0.40 0.30	0.17 0.15 0.12 0.09 0.11	0.17 0.33 0.15 0.10 0.08	0.20 0.14 0.11 0.07	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
6 7 8 9 10	0.04 0.00 0.00 0.00 2.8	0.04 0.03 0.02 0.01 0.01	0 04	0.18 0.09 0.18 0.12 0.13	0.13 0.13 0.12 0.11 0.19	0.24 0.18 0.15 2.2 0.44	0.11 0.16 1.7 0.45 0.21	1.4 10 2.9 2.9 0.60	0.25 0.11 0.08 0.07 0.14	0.00 0.00 0.00 0.00 0.00	0.64 0.00 0.00 0.00 0.21	0.00 0.00 0.00 0.00 0.00	
11 12 13 14 15	2.0 0.92 0.39 0.16 0.68	0.01 0.01 0.01 0.02 0.02	0.02 0.98 0.38 2.4 0.70	0.04 0.04 0.04 0.04 0.03	0.11 0.10 0.09 0.07 0.07	0.31 0.24 0.19 0.15 1.9	0.15 0.16 0.15 0.18 0.13	0.42 15 8.1 1.5	3.0 4.2 0.66 0.39 0.32	0.00 0.00 0.00 0.00 0.00	2.3 0.70 0.06 0.12 0.02	0.00 0.00 0.00 0.00 0.00	
16 17 18 19 20	0.70 0.11 0.05 0.02 0.00	0.02 0.02 0.03 0.05 0.04	7.0 6.3 1.2 0.58 0.30	0.04 0.03 0.03 0.20 0.10	0.07 0.06 0.06 0.55 0.27	0.60 0.34 0.26 0.95 0.60	0.11 0.10 0.09 1.2 2.0	2.1 4.3 1.7 1.1 0.98	0.18 0.13 0.10 0.07 0.05	0.00 0.00 0.00 0.00 0.00	0.32 0.06 1.2 0.75 0.26	0.00 0.06 0.04 0.76 1.0	
21 22 23 24 25	0.00 0.00 0.09 1.1 0.19	0.03 0.02 0.02 4.4 0.20	0.18 0.34 0.15 0.11 0.10	0.09 0.10 0.18 0.26 0.09		0.33 0.23 0.20 0.43 2.4	1.5 0.48 0.30 0.16 0.11	0.90 0.77 0.66 0.72 0.65	0.04 0.03 0.01 0.00 0.24	0.00 0.00 0.00 0.00 0.00	0.08 0.00 0.08 0.06 0.00	0.12 0.00 0.00 0.00 0.00	
26 27 28 29 30 31	0.01	0.32 0.10 1.2 0.79 0.86	0.09 0.09 0.09 0.07 0.07 e0.06	0.05 0.04 0.04 0.40 3.1 5.0	0.19 0.20 0.15 	1.1 0.57 0.46 0.35 0.25 0.20	0.10 2.5 0.84 0.36 0.23	0.48 0.84 0.84 0.71 0.50	0.09 0.03 0.02 0.00 0.00	0.01 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
MEAN MAX MIN	0.32 2.8 0.00	0.29 4.4 0.01	0.70 7.0 0.02	0.35 5.0 0.03	0.18 0.76 0.06	0.59 2.4 0.09	0.47 2.5 0.09	2.01 15 0.08	0.39 4.2 0.00	0.00 0.01 0.00	0.22 2.3 0.00	0.07 1.0 0.00	
STATIST	CICS OF MO	NTHLY ME.	AN DATA F	OR WATER Y	EARS 1997	7 - 2002	, BY WATER	YEAR (WY)					
MEAN MAX (WY) MIN (WY)	0.22 0.45 2001 0.06 2000	0.26 0.43 1999 0.02 2000	0.28 0.70 2002 0.13 1999	0.44 0.80 1999 0.26 2000	0.62 1.81 1999 0.18 2002	0.59 1.28 1998 0.23 2001	0.48 0.74 1998 0.12 2000	0.77 2.01 2002 0.14 2001	0.51 1.11 1998 0.18 2001	0.59 1.25 1998 0.00 2002	0.18 0.26 1998 0.07 1999	0.09 0.16 2001 0.00 1999	
SUMMARY	STATISTI	CS	FO	R 2001 CAI	LENDAR YEA	AR.	FOR 2002	WATER YEA	AR.	WATER YE	ARS 1997	- 2002	
ANNUAL MEAN			7.0 0.00 0.00  0.74 0.07 0.00	Dec 1 Many Day At Time	L6 78 28	0.47 15 0.00 0.00 154' 3.55 0.00 1.1 0.09	May 1 Many Day At Time A May 1 May 1 Many Day	.2 75 25 2 2 2 75	0.42 0.54 0.28 31 0.00 0.00 710 <sup>a</sup> 5.39 0.00 0.86 0.09	Jul 3 Eac At Jul 3 Jul 3 Eac	1998 2001 30 1998 ch Year : Times 30 1998 30 1998 ch Year		

e Estimated  $^{\rm a}$  From rating extended above 110  ${\rm ft}^3/{\rm s}$ .

### LOWER MISSISSIPPI RIVER BASIN

### 07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO

LOCATION.--Lat 38°45'44", long 90°11'48", St. Louis County, Hydrologic Unit 07140101, on left downstream wingwall of Fry Lane bridge, 0.34 mi south of Interstate 270, 2.34 mi east of Highway 367 (Lewis and Clark Blvd.), and 1.76 mi upstream of Mississippi River.

DRAINAGE AREA. -- 5.19 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 431.94 ft above National Geodetic Vertical Datum of 1929.

 $REMARKS.--Water-discharge\ records\ fair\ except\ for\ estimated\ daily\ discharges\ and\ those\ below\ 1\ ft^3/s\ and\ above\ 1,000\ ft^3/s\ ,\ which\ records\ fair\ except\ for\ estimated\ daily\ discharges\ and\ those\ below\ 1\ ft^3/s\ and\ above\ 1,000\ ft^3/s\ ,$ are poor.

		DISCHAR	GE, CUBIC	FEET PER		WATER YEAN VAL	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2 0 3 0 4 0	.09 .09 .09 .09	0.31 2.2 0.43 0.28 0.27	1.1 0.80 0.70 0.66 0.65	0.93 0.99 1.0 0.92	13 6.3 4.6 3.6 3.1	2.2 31 8.9 2.6 3.0	2.7 2.8 2.6 3.1 2.6	2.6 5.3 2.0 1.8 1.5	1.7 1.3 1.3 1.8	1.6 0.91	e0.43 e0.36 e0.30 e0.34 e2.2	0.22 0.17 0.14 0.14 0.25
7 0 8 0	.12 .12 .12	0.29 0.27 0.27 0.27 0.31	0.84 0.59 0.53 0.52 0.48	1.1 1.1 1.2 1.7		2.5 2.0 1.9 37 3.7	2.0 3.6 25 4.4 2.1	22 123 43 50 5.6	2.0 1.2 1.1 1.0 2.6	0.53 0.54 0.53 0.72 1.9	e1.4	0.26 0.25 0.34 0.28 0.19
13 3 14 0	.3 .5 .90		0.46 16 4.8 37 4.3	1.1 1.1 1.1 1.1	3.1 2.3 2.2 2.0 2.1	3.0 2.8 2.5 2.3 25	1.9 2.6 2.2 2.4 1.8	3.8 177 100 8.9 5.7	82 54 2.7 1.5	e0.81 e1.4 e1.1 e0.70 e1.3	e2.3 e3.5 e1.4 e1.8 0.40	0.19 0.13 0.16 0.16 0.13
18 0 19 0	51	0.33 0.33 0.34 0.74 0.37	85 65 9.0 5.7 4.0	0.95 0.93 0.93 3.2 1.6	2.0 2.0 1.9 19 4.6	5.4 2.9 2.6 13 5.8	1.8 1.8 1.6 38 21	16 56 10 5.6 4.9	0.92 0.83 0.79 0.77	e0.91 e2.0 e4.0 e2.5 e0.96	0.39	0.18 3.2 0.64 9.9
22 0 23 0 24 19	. 25 . 68	0.56 0.36 0.35 74 1.0	3.3 6.7 3.3 2.2 1.7		3.3	2.4 5.7 44	24 3.6 2.6 2.4 2.0	4.1 3.7 3.3 4.7 3.3	0.73 0.70 0.72 0.74	e0.62 e2.1 e2.8 e0.96 e0.54	0.32 0.28 0.77 0.44 0.35	0.63 0.31 0.21 0.19 0.18
28 0 29 0 30 0	.39 .37 .32 .34	2.4 1.2 16 8.2 13		1.1 1.1 1.1 9.0 63 99	3.2 2.1 1.8 	18 5.6 3.8 3.4 2.9 2.8	1.6 48 11 3.4 2.8	2.8 7.0 5.5 3.8 2.4 1.9	0.80 0.77 0.67	e0.47	0.26 0.19 0.18 0.25 0.26 0.21	0.17 0.17 0.20 0.16 0.13
MAX	.83 43 .09	4.19 74 0.27	8.45 85 0.46	6.74 99 0.92	3.82 19 1.8	8.19 44 1.9	7.58 48 1.6	22.2 177 1.5	6.49 82 0.67	1.17 4.0 0.46	2.14 29 0.18	0.98 10 0.13
MEAN 3 MAX 5 (WY) 2 MIN 0	.23 .38 .001 .50 998	2.88 4.36 1999 0.95 2000	2.90 8.45 2002 1.22 2001	5.51 13.2 1999 0.90 2000	7.15 17.1 1999 3.82 2002	7.32 18.5 1998 1.71 2000	6.37 11.3 1998 1.23 2000	10.0 22.2 2002 3.27 2001	7.17 17.5 1998 1.66 1997	6.76 18.5 1998 0.32 1997	3.74 10.9 1998 1.05 2001	1.79 2.69 1998 0.56 1999
SUMMARY ST	'ATISTICS	S	FOR	2001 CALE	ENDAR YEA	R	FOR 2002 1	WATER YE	AR	WATER YE	ARS 1997	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				85 0.09 Ser 0.09  6.9 0.99 0.14	Dec 1 26-Oct Sep 2	6 4 6	177 0.09 0.16 1500 <sup>a</sup> 8.56 0.09 13 1.5	May 1 Oct 1 Sep 1 May 1 May 1 Oct 1	12 -4 10 12 12	5.64 8.19 2.89 381 0.05 0.06 4800 <sup>a</sup> 13.10 0.05 <sup>b</sup> 9.8 1.0		7 1997 1 1997 0 1998 0 1998

e Estimated

a From rating extended above 396 ft<sup>3</sup>/s. Minimum daily, instantaneous unknown

# 07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 23	2357	ENVIRONM	IENTAL	12	6.3	67	7.8	1010	16.2	260	68.5	21.0	149
DEC 11	0920	ENVIRONM	IENTAL	.43	13.2	99	7.7	984	2.5	360	90.7	31.6	208
FEB 05	0815	ENVIRONM	IENTAL	3.1	8.8	63	7.4	844	1.7	310	75.0	29.0	196
MAR 09	0617	ENVIRONM	IENTAL	158	9.8	95	7.5	1000	12.7	110	30.0	7.50	74
MAY 29	0815	ENVIRONM	IENTAL	4.4	5.5	60	7.6	677	18.5	210	58.0	16.0	136
AUG 08	1030	ENVIRONM	IENTAL	e1.6	5.3	61	7.4	554	21.4	180	49.0	15.0	112
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 23 DEC	150	183	0		37	E1.1	.13	.300	.01	.250	E.29	4.4	13
11	209	255	0	142	E2	E.40	.04	.600	.02	.120	E.13	7.7	7
FEB 05 MAR	195	238	0	150	3	9.8	7.60	.700	.06	.590	.99	14	44
09 MAY	74	91	0		937	2.8	.13	.360	.04	.220	1.00	4.4	22
29 AUG	135	165	0		43	.60	.10	.600	.03	.100	.15	7.2	14
08	113	137	0		49	.90	.11	.710	.02	.240	.30	9.2	18
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 23	24000	42000	5600	42	2	<1	1.0	1.0	3.7	109	<1	238	<.1
DEC 11	210	500	114	8	1	<1	1.0	1.0	1.4	78	<1	297	<.1
FEB 05	K800	K600	K1000	4	<1	<1	<1.0	<1.0	2.5	72	<1	656	<.1
MAR 09	<20	16500	K6400	355	2	<1	<1.0	2.1	3.0	332	2	248	<.1
MAY 29	2800	4200	8000	71	2	<1	<1.0	<1.0	2.3	69	<1	97	<.1
AUG 08	<10	480	K72	<3	3	<1	<1.0	<1.0	2.6	11	<1	350	<.1

# 07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 23	3.9	<1	<1.0	54	<7	<3	<2	<3	<3.0	<3	<20	<3	<2
DEC 11	3.5	<1	<1.0	27									
FEB 05	2.9	<1	<1.0	170									
MAR 09	2.5	<1	<1.0	49	<7	М	<2	<3	<.7	<3	<3	<3	<2
MAY 29	2.3	<1	<1.0	49									
AUG 08	3.6	<1	<1.0	3									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L)	2- CHLORO- PHENOL TOTAL (µg/L)	2- NITRO- PHENOL TOTAL (µg/L)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L)	4- NITRO- PHENOL TOTAL (µg/L)	ACE- NAPHTH- ENE TOTAL (µg/L)	ACE- NAPHTH- YLENE TOTAL (µg/L)	ALDRIN, TOTAL (µg/L)	ANTHRA- CENE TOTAL (µg/L)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L)
	(34581)	(34586)	(34591)	(34631)	(34657)	(34636)	(34641)	(34646)	(34205)	(34200)	(39330)	(34220)	(34447)
OCT 23	<2	<2	<3	<3	<3	<2	<2	<3	<2	<2	<.01	М	<2
DEC 11													
FEB 05													
MAR 09	<2	<2	<1	<5	<3	<2	<2	<3	М	<2	<.01	М	<2
MAY 29 AUG													
08													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA- CENE WATER UNFLITED REC (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLIRD (µg/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 23	DINE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	ANTHRA- CENE WATER UNFLTRD REC (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L)	CHLORO- ETHOXY) METHANE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L)	PHENO- THION WATER UNFLTRD (µg/L)	DANE, TECH- NICAL TOTAL (µg/L)	PYRIFOS TOTAL RECOVER (µg/L)
OCT 23 DEC 11	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 23 DEC 11 FEB 05	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 23 DEC 11 FEB 05 MAR 09	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLITED REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 23 DEC 11 FEB 05 MAR 09 MAY 29	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2	PHENO- THION WATER UNFLIRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 23 DEC 11 FEB 05 MAR 09	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2	PHENO- THION WATER UNFLIRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 23 DEC 11 FEB 05 MAR 09 MAY 29 AUG	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)  M M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02  <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 23 DEC 11 FEB 05 MAR 09 MAY 29 AUG 08	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (μg/L) (34230)  M  M DEF TOTAL (μg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M M AZINON, TOTAL (µg/L) (39570)	ANTHRACENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <methyl (34341)<="" (µg="" l)="" phthal-ate="" td="" total=""><td>CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2  &lt;2    DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  &lt;6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)</td><td>PHENO-THION WATER UNFLTRD (µg/L) (39786)  &lt;.02 &lt;.02 &lt;.02  ENDO-SULFAN I TOTAL (µg/L) (39388)</td><td>DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1  ENDRIN WATER UNFLIRD (µg/L) (39390)</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)  &lt;.01</td></methyl>	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2  <2    DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  <6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO-THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02 <.02  ENDO-SULFAN I TOTAL (µg/L) (39388)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1  ENDRIN WATER UNFLIRD (µg/L) (39390)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 23 DEC 11 FEB 05 MAR 09 AUG 08  DATE  OCT 23 DEC	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M  M  DEF TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M AZINON, TOTAL (µg/L)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M M DIETHYL PHTHAL- ATE TOTAL (µg/L)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <1 METHYL PHTHAL-ATE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  <66  DISUL- FOTON UNFILT RECOVER (µg/L)	PHENO-THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02 <.02  ENDO-SULFAN I TOTAL (µg/L)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L)	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01 <.01  ETHION, TOTAL (µg/L) (µg/L)
OCT 23 DEC 11 FEB 05 MAR 09 MAY 29 AUG 08  DATE  OCT 23 DEC 11 FEB	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	FLUOR- AN- THENNE TOTAL (µg/L) (34230)  M M DEF TOTAL (µg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M  M  M  AZINON, TOTAL (µg/L) (39570)	ANTHRACENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <methyl (34341)<="" (µg="" l)="" phthal-ate="" td="" total=""><td>CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2 &lt;2 &lt;2 BUT-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  &lt;6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)</td><td>PHENO- THION WATER UNFLTRD (µg/L) (39786)  &lt;.02 &lt;.02 &lt;.02  ENDO- SULFAN I TOTAL (µg/L) (39388)  &lt;.02</td><td>DANE, TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  &lt;.01</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)   &lt;.01 &lt;.01   ETHION, TOTAL (µg/L) (39398)   &lt;.01</td></methyl>	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 BUT-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  <6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02 <.02  ENDO- SULFAN I TOTAL (µg/L) (39388)  <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01 <.01   ETHION, TOTAL (µg/L) (39398)   <.01
OCT 23 DEC 11 FEB 05 MAR 09 MAY 29 AUG 08  DATE  OCT 23 DEC 11 FEB 05 MAR	DINE TOTAL (µg/L) (39120)  <40 <40 <ho (34320)="" (µg="" l)="" m<="" sene="" td="" total=""><td>A- PYRENE TOTAL (μg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  &lt;2</td><td>FLUOR- AN- THENE TOTAL (μg/L) (34230)  M  M  DEF TOTAL (μg/L) (39040)  &lt;.02</td><td>FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  M  AZINON, TOTAL (μg/L) (39570)  .05</td><td>ANTHRACENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)  &lt;.006</td><td>[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  E2</td><td>CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  &lt;3 &lt;3 &lt;3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M</td><td>CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2 &lt;2 &lt;2 DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  &lt;5</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  &lt;66  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  &lt;.10</td><td>PHENO- THION WATER UNFLTRD (µg/L) (39786)   &lt;.02</td><td>DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1  ENDRIN WATER UNFLIRD REC (µg/L) (39390)  &lt;.01</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)  &lt;.01 &lt;.01 &lt;.01 ETHION, TOTAL (µg/L) (39398)  &lt;.01</td></ho>	A- PYRENE TOTAL (μg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (μg/L) (34230)  M  M  DEF TOTAL (μg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  M  AZINON, TOTAL (μg/L) (39570)  .05	ANTHRACENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)  <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  E2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  <66  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1  ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01 ETHION, TOTAL (µg/L) (39398)  <.01
OCT 23 DEC 11 FEB 05 MAR 09 AUG 08  DATE  OCT 23 DEC 11 FEB 05 MAR 09 MAY	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M DEF TOTAL (µg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M DI- AZINON, TOTAL (µg/L) (39570)	ANTHRACENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  E2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3  METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) E2  <66   DISUL- FOTON UNFILT RECOVER (µg/L) (39011) <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 23 DEC 11 FEB 05 MAR 09 AUG 08  DATE  OCT 23 DEC 11 FEB 05 MAR 09	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)  M M	A- PYRENE TOTAL (μg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M  M  DEF TOTAL (µg/L) (39040)  <.02 <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M DI- AZINON, TOTAL (µg/L) (39570)  .0505	ANTHRACENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M ELDRIN TOTAL (µg/L) (39380)  <.006 <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  E2 <2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3  METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 SIDI-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)  M <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2 <6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10 <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02  ENDO- SULFAN I TOTAL (µg/L) (39388)  <.02 <.01	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01 <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01 <.01   ETHION, TOTAL (µg/L) (39398)   <.01 <.01 <.01

### 07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued (Metropolitan Sewer District)

DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (μg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
OCT 23	М	<2	<.01	<.009	<.01	<2	М	М	<.006	E.02	<.020	<.01	<.006
DEC 11													
FEB 05													
MAR 09	E1	M	<.01	<.009	<.01	<2	М	M	<.006	<.10	<.015	<.02	<.006
MAY 29													
AUG 08													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 23 DEC	<4	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
11 FEB													
05													
MAR 09	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	M	M	<3.0
MAY 29													
AUG 08													
	DATE	РНОR ТОТ ( µg ( 390	'AL TOT (μg	NE APHE TAL TOT [/L) (μg	X- CHLC NE, WAT AL RE /L) (µg	4- 1,3- RI- CHLC DRO- WAT UNF UNFI CC RE	DI- 1,4- DRO- CHLO CER WA' TRD UNFI C RI (/L) (µg	ZENE BENZ -DI- O-I ORO- CHLC TER WAT LITRD UNFI EC RE g/L) (µg 571) (345	DI- HEX DRO- CHLO FER WAT LTRD UNFL EC RECO J/L) (µg.	A- HEX RO- CHLO ER BUT TRD ADIE VER TOT /L) (µg.	RO- '- NAPE 'NE ALE 'AL TOT /L) (µg	ENE CAL /L)	
	OCT 23	<.	02 M	1 <1	<2	? <2	? <	2 <2	2 <2	<3	<5	5	
	DEC 11 FEB	-											
	05 MAR	-											
	МАК 09 МАУ	<.	02 E1	. <1	<2	? <2	2 <	2 <2	2 <2	<1		1	
	29 AUG	-											
	08	-					-					-	

e--Estimated discharge.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

#### 07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO

LOCATION.--Lat  $38^{\circ}44^{\circ}12^{\circ}$ , long  $90^{\circ}13^{\circ}35^{\circ}$ , in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec.9, T.46 N., R.7 E., St. Louis County, Hydrologic Unit 07140101, on left downstream wingwall of Bellefontaine Road bridge, 2.32 mi south of Interstate 270, 0.80 mi east of Highway 367 (Lewis and Clark Blvd.), and 1.03 mi upstream of Mississippi River.

DRAINAGE AREA. -- 24.4 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year. Annual peaks only for 1968-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 409.96 ft above National Geodetic Vertical Datum of 1929.

 $REMARKS.--Water-discharge\ records\ fair\ except\ for\ estimated\ daily\ discharges\ and\ those\ below\ 1\ ft^3/s\ and\ above\ 2,600\ ft^3/s,$ which are poor.

		DISCHAF	GE, CUBIC	FEET PER	SECOND, W		EAR OCTOBEF ALUES	R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.10 0.12 0.25 0.28 34	1.3 17 2.0 0.58 0.54	7.8 4.8 3.6 3.1 3.0	1.9 1.9 2.4 2.6 3.4	26 12 10 7.5 6.0	4.1 68 14 5.6 5.4	4.9 5.2 3.8 3.2 3.1	6.5 12 4.6 4.3 3.4	4.4 4.1 3.8 3.3	1.1 2.3 9.9 3.8 1.4	0.72 0.56 0.43 0.65 4.6	0.55 0.66 0.96 1.1 1.0
6 7 8 9 10	4.3 0.42 0.24 0.34	0.57 0.66 0.71 1.4 1.2	6.2 2.8 1.9 1.7	4.7 3.8 2.9 3.3 3.0	5.7 5.3 4.9 4.7 9.1	5.9 4.0 3.4 70 8.4	3.0 4.2 49 12 4.6	47 312 138 e128 e20	8.6 4.0 3.3 6.0	1.8 0.87 0.95 3.2 5.6	193 8.6 5.3 1.9 1.6	1.7 1.1 2.1 1.6 1.3
11 12 13 14 15	135 34 18 7.3 22	1.7 0.75 1.6 0.79 0.64	1.6 39 17 69	2.4 2.1 1.9 1.9	6.2 4.2 3.6 3.4 3.5	6.3 6.8 4.8 4.2	4.2 6.7 5.1 4.5 3.4	e7.0 e450 e180 e18 e10	230 175 14 8.1 5.7	1.1 2.9 1.9 0.83 2.8	3.2 6.2 5.6 9.2 2.2	1.2 1.1 0.99 0.83 0.81
16 17 18 19 20	27 3.2 1.0 0.53 0.58	0.69 0.68 0.70 4.2 1.5	120 105 16 9.5 6.8	1.4 1.5 1.4 8.6 4.9	3.5 3.3 3.0 26	14 6.7 5.0 30 17	3.1 2.7 2.5 173 64	e40 e130 e27 e15 e14	4.2 3.5 3.1 2.6 2.6	1.4 5.7 24 6.8 1.5	0.79 0.81 36 6.7 2.9	1.0 11 6.2 31 32
21 22 23 24 25	0.59 0.55 1.8 72 8.8	0.65 0.52 0.57 180 7.5	5.6 14 6.7 4.4 3.6	2.6 2.9 3.1 15	5.3 3.5 3.1 3.2 6.2	6.6 4.8 5.0 9.9	59 14 9.5 8.4 8.3	e12 e12 39 16 10	2.8 3.8 3.9 9.8	0.96 6.4 20 2.5 1.1	1.3 1.3 3.9 4.2 1.1	3.1 0.91 0.75 0.79 1.5
26 27 28 29 30 31	1.4 0.92 0.74 0.74 0.73	8.9 7.2 41 28 47	3.3 3.3 4.1 2.9 2.1 2.4	2.1 2.0 2.0 17 118 182	12 4.7 4.1 	37 15 11 8.8 7.2 5.5	4.9 98 28 10 7.7	8.1 15 19 12 6.4 6.8	6.6 3.2 3.2 1.5 1.3	12 4.0 0.87 3.3 0.89 0.90	0.79 0.76 0.71 0.60 0.65 0.53	0.71 0.65 0.98 1.0 1.1
MEAN MAX MIN IN.	15.5 135 0.10 0.73	12.0 180 0.52 0.55	15.6 120 1.6 0.74	13.2 182 1.4 0.62	7.18 26 3.0 0.31	17.1 89 3.4 0.81	20.3 173 2.5 0.93	55.6 450 3.4 2.63	21.0 230 1.3 0.96	4.28 24 0.83 0.20	9.90 193 0.43 0.47	3.66 32 0.55 0.17
STATIS	TICS OF M	ONTHLY MEA	N DATA FO	R WATER Y	EARS 1996	- 2002	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	10.1 15.5 2002 6.56 2000	18.2 51.7 1997 7.62 2000	9.27 17.2 2000 2.89 2001	19.3 45.3 1999 7.54 2001	27.1 55.5 1999 7.18 2002	24.3 69.3 1998 7.12 2000	17.4 31.0 1998 7.57 2000	24.0 55.6 2002 7.73 2001	27.4 61.2 1998 6.96 2001	16.2 42.7 1998 1.16 1997	14.9 32.9 1998 4.14 2001	8.35 14.0 1998 3.12 1999
SUMMAR	Y STATIST	ICS	FOR	2001 CALE	NDAR YEAR		FOR 2002 W	NATER YEAR		WATER Y	EARS 1996	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU INSTAN ANNUAL 10 PER 50 PER	T ANNUAL M ANNUAL M T DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE OW FLOW INCHES) EDS EDS		9.20 180 0.06 0.13  5.12 25 3.0 0.26	Nov 24 Aug 15 Aug 31		16.4 450 0.10 0.64 Unknown <sup>a</sup> 11.85 0.08 9.11 36 4.0 0.74	May 12 Oct 1 Aug 27 May 17 May 17 Oct 1		17.8 27.7 7.08 1050 0.06 0.13 5270 <sup>b</sup> 16.26 0.05 9.94 4.0 0.74	Aug 1 Aug 3 Jul 2 Jul 2	1998 2001 7 1999 15 2001 31 2001 28 1996 28 1996 15 2001

e Estimated  $^{\rm a}$  Occurred during period of backwater from the Mississippi River.  $^{\rm b}$  From rating extended above 1,270 ft  $^{\rm 3}/\rm s.$ 

# 07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued (Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

DATE	TIME	SAMPLE TYPE	2	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 24	0045	ENVIRONM	MENTAL	61	6.0	63	7.2	536	15.8	160	46.2	11.7	107
DEC 10	1700	ENVIRONM	MENTAL	1.7	6.9	56	8.0	1050	5.7	330	89.4	26.0	197
FEB 05	0900	ENVIRONM	MENTAL	6.4	11.2	82	7.8	1280	2.1	350	93.0	28.0	202
MAR 09	0332	ENVIRONM	MENTAL	171	10.3	101	7.9	2120	12.8	240	65.0	19.0	120
MAY 30 AUG	0815	ENVIRONM	MENTAL	6.0	5.8	67	7.6	594	20.9	330	82.0	30.0	113
08	1130	ENVIRONM	MENTAL	3.9	2.9	35	7.2	436	24.1	120	36.0	8.30	75
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD s (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUSORTHOTOTAL(mg/Las P)(70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 24 DEC	107	130	0		69	E.90	.10	.410	.02	.180	E.27	13	10
10 FEB	198	242	0	152	E15	E.50	.10	.280	.01	.070	E.11	4.1	22
05 MAR	205	250	0	200	68	.50	<.01	1.40	.01	.080	.14	6.6	12
09 MAY	121	148	0		575	2.1	.03	.240	.02	.050	.57	2.9	<5
30 AUG	111	136	0		6	.50	.08	.730	.04	.080	.09	5.0	18
08	75	92	0		56	1.3	.17	1.10	.07	.260	.34	9.6	17
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 24													
	7000	10600	K2490	206	2	_1	2	6	4 5	310	_1	222	_ 1
DEC 10	7000 K42	10600	K2480	206	2	<1 <1	.3	.6 1	4.5	312 47	<1 <1	232 146	<.1
10 FEB	K42	46	72	10	1	<1	.1	.1	1.9	47	<1	146	<.1
10 FEB 05 MAR	K42 120	46 54	72 126				.1 <1.0	.1 <1.0					
10 FEB 05	K42	46	72	10 11	1 <1	<1 <1	.1	.1	1.9	47 24	<1 <1	146 283	<.1

# 07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
24	3.2	<1	<1.0	94	<7	M	<2	<3	<3.0	<3	<20	<3	<2
DEC 10	3.0	<1	<1.0	42									
FEB 05	2.5	2	<1.0	78									
MAR 09	3.2	1	<1.0	25	<7	М	<2	<3	<.7	<3	<3	<3	<2
MAY 30	1.9	<1	<1.0	26									
AUG 08	2.5	1	<1.0	<2									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLITED RECOVER (µg/L) (34447)
OCT 24	<2	<2	М	<3	<3	<2	<2	<3	М	М	E.01	М	<2
DEC 10													
FEB 05													
MAR 09	<2	<2	<1	<5	<3	<2	<2	<3	М	М	<.01	М	<2
MAY 30													
AUG 08													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA- CENE WATER UNFLITED REC (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLIRD (µg/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 24	DINE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	ANTHRA- CENE WATER UNFLTRD REC (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L)	CHLORO- ETHOXY) METHANE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L)	PHENO- THION WATER UNFLTRD (µg/L)	DANE, TECH- NICAL TOTAL (µg/L)	PYRIFOS TOTAL RECOVER (µg/L)
OCT 24 DEC 10	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 24 DEC 10 FEB 05	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 24 DEC 10 FEB 05 MAR 09	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (μg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	ANTHRA- CENE WATER UNFLIRD REC (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 24 DEC 10 FEB 05 MAR 09 MAY 30	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  E1	FLUOR- AN- THENE TOTAL (µg/L) (34230) E2	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) <19	PHENO- THION WATER UNFLIRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) E.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 24 DEC 10 FEB 05 MAR 09	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  E1	FLUOR- AN- THENE TOTAL (µg/L) (34230) E2	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526) M M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) <19	PHENO- THION WATER UNFLIRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) E.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 24 DEC 10 FEB 05 MAR 09 MAY 30	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  E1	FLUOR- AN- THENE TOTAL (µg/L) (34230) E2	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	ANTHRA- CENE WATER UNFLIRD REC (µg/L) (34526)  M M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) <19	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02  <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  E.1 < < < <	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 24 DEC 10 FEB 05 MAR 09 MAY 30 AUG 08	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  E1  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (μg/L) (34230) E2 M  M  DEF TOTAL (μg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M AZINON, TOTAL (µg/L) (39570)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2  <2    DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 E1 E1 UNITED TOTAL DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO-THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02 <.02  ENDO-SULFAN I TOTAL (µg/L) (39388)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1 <.1  ENDRIN WATER UNFLIRD (µg/L) (39390)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 24 DEC 10 FEB 05 MAR 09 AUG 08  DATE  OCT 24 DEC	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L) (34247)  E1  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E2  M DEF TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M M AZINON, TOTAL (µg/L)	ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M M DIETHYL PHTHAL- ATE TOTAL (µg/L)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <1 METHYL PHTHAL-ATE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L)	CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)	ETHYL HEXYL) PHTHAL ATE TOTAL (µg/L) (39100)  <19 E1 E1 DISUL- FOTON UNFILT RECOVER (µg/L)	PHENO-THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02 <.02  ENDO-SULFAN I TOTAL (µg/L)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1  ENDRIN WATER UNFLIED REC (µg/L)	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01 <.01  ETHION, TOTAL (µg/L) (µg/L)
OCT 24 DEC 10 FEB 05 MAR 09 AUG 08  DATE  OCT 24 DEC 10 FEB	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  E1	A- PYRENE TOTAL (µg/L) (34247)  E1  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E2 M DEF TOTAL (µg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  M  M  AZINON, TOTAL (μg/L) (39570)	ANTHRACENE WATER UNFLIRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380) E.005	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  E2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3  METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 E1 E1 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 24 DEC 10 FEB 05 MAR 09 AUG 08  DATE  OCT 24 DEC 10 FEB 05 MAR	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  E1	A- PYRENE TOTAL (μg/L) (34247)  E1   M   CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (μg/L) (34230)  E2 M DEF TOTAL (μg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  M  AZINON, TOTAL (μg/L) (39570)  .03	ANTHRA- CENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)  E.005	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  E2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 E1 E1 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 < < < ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01 ETHION, TOTAL (µg/L) (39398)  <.01
OCT 24 DEC 10 FEB 05 MAR 09 AUG 08  DATE  OCT 24 DEC 10 FEB 05 MAR 09	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)  E1 M	A- PYRENE TOTAL (µg/L) (34247)  E1  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E2 M DEF TOTAL (µg/L) (39040)  <.02 <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M  M  M  AZINON, TOTAL (µg/L) (39570)  .0303	ANTHRACENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M ELDRIN TOTAL (µg/L) (39380)  E.005006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  E2 <2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M <2	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 SIDI-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)  M <2	CHLORO- ISO- PROPYIL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  VIENT OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 E1 E1 COUNTY OF THE PROOF TO THE PRO	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02  ENDO- SULFAN I TOTAL (µg/L) (39388)  <.02 <.01	DANE, TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01 <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01 <.01   ETHION, TOTAL (µg/L) (39398)   <.01 <.01 <.01
OCT 24 DEC 10 FEB 05 MAR 09 AUG 08  DATE  OCT 24 DEC 10 FEB 05 MAR 09	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  E1	A- PYRENE TOTAL (μg/L) (34247)  E1   M   CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (μg/L) (34230)  E2 M DEF TOTAL (μg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  M  AZINON, TOTAL (μg/L) (39570)  .03	ANTHRA- CENE WATER WATER UNFLTRD REC (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)  E.005	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  E2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 E1 E1 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 < < < ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01 ETHION, TOTAL (µg/L) (39398)  <.01

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07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued (Metropolitan Sewer District)

DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (μg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (μg/L) (39530)	METH- ΟΧΥ- CHLOR, TOTAL (μg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
OCT 24	E2	М	<.01	<.009	<.01	<2	E1	М	<.006	E.06	.016	<.01	<.006
DEC 10													
FEB 05													
MAR 09 MAY	E1	М	<.01	<.009	<.01	<2	М	<2	<.006	<.10	<.015	<.02	<.006
30 AUG													
08													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 24 DEC	<4	<3	<2	<3	.017	<.006	.009	<3	<.01	<.1	М	E1	<3.0
10													
FEB 05													
MAR 09	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
MAY 30													
AUG 08													
	DATE	PHOR TOT ( µg ( 390	'AL TOT (μg	AL TOT	X- CHLO NE, WAT AL RE /L) (µg	4- 1,3- II- CHLC RO- WAT UNF UNFI C RE /L) (µg	-DI- 1,4- DRO- CHLO TER WAT TTRD UNFI EC RI J/L) (µg	ORO- CHLC FER WAT LTRD UNFI EC RE g/L) (µg	DI - HEX DRO- CHLO CER WAT TRD UNFL CC RECO (/L) (µg.	A- HEX RO- CHLC ER BUT TRD ADIE VER TOT /L) (µg	ORO- '- NAPH 'NE ALE 'AL TOT /L) (µg	ENE PAL /L)	
	OCT 24	<.	02 E2	<1	<2	N	1 <2	2 <2	2 <2	<3	s <5	;	
	DEC 10	-										-	
	FEB 05	-										-	
	MAR 09	<.	02 M	<1	<2	<2	2 <2	2 <2	2 <2	<1	. <5	;	
	MAY 30 AUG	-							-				
	08	-										-	

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### 07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO

LOCATION.--Lat 38°37'44", long 90°10'47", Hydrologic Unit 07140101, on downstream side of west pier of Eads Bridge at St. Louis, 15.0 mi downstream from Missouri River, 19.2 mi upstream from Meramec River, and at mile 180.0 above the Ohio River.

DRAINAGE AREA. -- 697,000 mi<sup>2</sup>, approximately.

#### WATER-DISCHARGE RECORDS

#### PERIOD OF RECORD. --

DISCHARGE: January 1861 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE HEIGHT: March 1933 to current year. Since January 1861 in reports of Mississippi River Commission. Since January 1890 in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area, WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder. Datum of gage is 379.94 ft above National Geodetic Vertical Datum of 1929. Prior to May 5, 1934, nonrecording gage 0.4 mi downstream; May 5, 1934, to Dec. 9, 1952, water-stage recorder at site 20 ft downstream at present datum

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River Basin and by many reservoirs and diversions for irrigation in Missouri River Basin. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 27, 1844, reached a stage of 41.32 ft, from floodmarks, discharge, 1,000,000 ft<sup>3</sup>/s, computed by U.S. Army Corps of Engineers. Flood in April 1785 may have reached a stage of 42.0 ft. Minimum flow, 18,000 ft<sup>3</sup>/s, Dec. 23, 1863.

DISCHARGE, CURIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 7 e121000 e123000 e126000 e129000 e125000 e116000 e110000 e109000 e105000 e97700 e90600 e91200 e95300 ---MEAN MAX MIN IN. 0.22 0.19 0.15 0.23 0.26 0.37 0.83 0.28 0.24 0.20 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2002, BY WATER YEAR (WY) MEAN MAX ( MA) 47920 MTN (WY) WATER YEARS 1933 - 2002 SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR ANNITAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN Jun 10 May 17 Aug 1 1993 Dec 12 1937 LOWEST DAILY MEAN Jan 13 Dec 30 ANNUAL SEVEN-DAY MINIMUM Dec 29 Jan 18 1940 Aug 1 1993 Aug 1 1993 MAXIMUM PEAK FLOW May 17 MAXIMUM PEAK STAGE ---37.34 May 17 49.58 INSTANTANEOUS LOW FLOW Dec 12 1937 Jan 23 ANNUAL RUNOFF (INCHES) 4 54 3 73 3 71 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 

90 PERCENT EXCEEDS

e Estimated

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#### 07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--WATER TEMPERATURES: October 1951 to current year. SEDIMENT RECORDS: April 1948 to current year.

REMARKS.--Sediment discharge computed from turbidity readings. Sediment records fair.

EXTREMES FOR PERIOD OF DAILY RECORD.-SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,720 mg/L, Feb. 24, 1985; minimum daily mean, 19 mg/L, Jan. 21 and 22, 1967.
SEDIMENT LOADS: Maximum daily, 9,830,000 tons, Feb. 24, 1985; minimum daily, 2,800 tons, Jan. 21, 1967.

#### EXTREMES FOR CURRENT YEAR. --

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,550 mg/L, May 9; minimum daily mean 62 mg/L, Oct. 7,Nov. 23 and Jan. 26. SEDIMENT LOADS: Maximum daily, 2,240,000 tons, May 9; minimum daily, 14,100 tons, Jan. 26.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		MEAN			MEAN			MEAN	
	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT
	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE
DAY	(cfs)	(mq/L)	(tons/day)	(cfs)	(mq/L)	(tons/day)	(cfs)	(mq/L)	(tons/day)
2111	(015)	(5/2/	(colle) day)	(015)	(5/2/	(comb, adj,	(015)	(5/2/	(comb) day)
		OCTOBER		N	OVEMBER		DI	ECEMBER	
1	129000	174	60700	132000	150	53600	139000	135	50700
2	118000	134	42800	131000	138	48800	138000	98	36400
3	106000	106	30400	133000	135	48600	140000	97	36600
4	96600	86	22600	133000	130	46600	145000	108	42200
5	103000	69	19100	135000	123	44900	141000	96	36700
J	103000	09	19100	133000	123	44900	141000	90	30700
6	101000	70	19100	137000	119	44200	135000	104	37800
7	106000	62	17700	130000	115	40300	127000	94	32200
8	110000	70	20900	121000	106	34700	123000	91	30300
9	116000	76	24000	121000	93	30500	120000	98	31700
10	110000	75	22400	126000	84	28500	124000	99	33200
10	110000	, 3	22100	120000	01	20300	121000	,,,	33200
11	110000	118	34900	120000	81	26200	129000	99	34400
12	129000	191	66600	118000	74	23500	138000	103	38400
13	135000	149	54200	115000	70	21700	138000	118	43900
14	138000	165	61300	111000	71	21300	142000	168	64500
15	136000	107	39300	109000	74	21800	145000	269	105000
16	136000	112	41100	105000	66	18700	150000	214	86500
17	135000	108	39400	107000	67	19300	176000	513	244000
18	144000	111	43100	99900	65	17500	187000	388	196000
19	146000	106	41400	103000	72	19900	171000	276	127000
20	154000	125	51900	99100	69	18400	162000	253	111000
20	101000	123	51700	33200	0,5	10100	102000	200	111000
21	154000	134	55900	102000	68	18800	153000	239	98600
22	137000	127	47100	98000	69	18400	152000	183	75300
23	136000	132	48600	90600	62	15100	157000	154	65400
24	161000	160	69700	107000	121	35100	145000	136	53300
25	180000	212	103000	122000	139	45900	123000	119	39400
23	100000	212	103000	122000	133	43300	123000	117	37400
26	168000	197	89600	116000	109	34200	121000	115	37500
27	148000	181	72400	114000	101	31000	111000	107	32100
28	152000	170	69600	116000	94	29500	91400	101	24900
29	148000	160	63900	122000	125	41000	82700	82	18300
30	138000	147	54900	138000	126	46900	78800	80	17000
31	142000	159	61100				89000	72	17300
31	1 12000	137	31100				0,000	12	17300

#### MISSISSIPPI RIVER MAIN STEM

### 07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		JANUARY		:	FEBRUARY			MARCH	
1	89100	81	19500	234000	1070	677000	152000	129	53000
2	82900	72	16100	261000	1020	720000	156000	135	56900
3	81100	75	16500	227000	909	557000	160000	222	95800
4	81100	74	16200	196000	667	353000	149000	151	60600
5	85000	77	17800	172000	461	214000	132000	126	45100
6	89300	77	18600	158000	476	203000	117000	113	35800
7	89100	76	18400	148000	234	93500	125000	112	37800
8	87000	76	17800	138000	207	77000	134000	113	40800
9	97700	86	22800	134000	187	67600	146000	230	90700
10	99700	72	19400	137000	175	64600	157000	328	139000
11	94100	73	18500	136000	182	66800	173000	131	61400
12	99000	75	20000	133000	175	62700	176000	148	70400
13	98700	74	19600	133000	160	57400	167000	176	79300
14	100000	78	20900	137000	156	57900	163000	268	118000
15	97500	78	20600	139000	146	54900	168000	266	121000
16	91300	78	19300	134000	153	55300	174000	249	117000
17	94900	73	18800	126000	140	47500	173000	222	104000
18	89500	80	19200	124000	134	45000	167000	216	97400
19	90500	72	17500	123000	132	44000	167000	215	96700
20	89100	77	18400	118000	129	41000	169000	205	93400
21	86500	75	17500	116000	145	45400	166000	216	96700
22	81100	70	15400	132000	131	46800	167000	183	82400
23	79500	71	15300	142000	127	48500	161000	174	75500
24	89200	64	15500	155000	155	65000	163000	193	84000
25	86300	71	16500	164000	204	90300	178000	362	173000
26 27 28 29 30 31	84600 84800 85000 92400 98800 136000	62 68 66 72 75 682	14100 15500 15200 18000 20000 250000	160000 145000 146000  	229 185 143 	99100 72600 56600  	172000 166000 164000 175000 170000 158000	318 284 329 298 251 208	146000 125000 144000 137000 112000 86500
		APRIL			MAY			JUNE	
1	145000	165	62900	408000	694	764000	351000	353	335000
2	139000	146	53000	402000	632	686000	329000	326	289000
3	148000	152	58800	387000	519	542000	327000	315	278000
4	151000	150	58600	377000	334	340000	323000	267	233000
5	154000	136	54500	363000	256	251000	311000	281	236000
6	155000	131	52400	350000	380	359000	305000	287	237000
7	158000	132	53700	368000	667	663000	317000	289	247000
8	164000	149	62600	428000	868	1000000	329000	295	262000
9	179000	179	82100	534000	1550	2240000	340000	312	287000
10	207000	216	115000	566000	1290	1970000	352000	350	333000
11	220000	301	170000	577000	1110	1730000	364000	445	438000
12	217000	352	196000	581000	1350	2120000	391000	782	826000
13	204000	345	180000	609000	1180	1940000	418000	708	800000
14	207000	320	170000	640000	1120	1930000	453000	1070	1310000
15	203000	298	155000	662000	1090	1940000	460000	964	1200000
16	197000	287	146000	676000	1100	2010000	452000	681	832000
17	205000	306	162000	679000	852	1560000	436000	515	607000
18	207000	360	193000	664000	939	1680000	417000	444	499000
19	212000	358	198000	639000	614	1060000	394000	378	402000
20	224000	589	347000	602000	563	915000	366000	320	316000
21	249000	687	450000	562000	527	800000	334000	399	359000
22	293000	669	518000	525000	484	685000	310000	415	347000
23	304000	764	615000	489000	351	464000	293000	374	296000
24	305000	725	587000	450000	329	400000	275000	308	229000
25	321000	796	681000	426000	317	365000	269000	254	184000
26 27 28 29 30 31	316000 308000 330000 370000 399000	858 832 588 737 578	723000 685000 520000 724000 621000	419000 421000 438000 437000 417000 388000	287 277 527 563 428 388	325000 315000 623000 664000 481000 406000	262000 252000 244000 240000 238000	226 224 193 173 167	160000 152000 127000 112000 107000

### MISSISSIPPI RIVER MAIN STEM

### 07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO--Continued

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SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		MEAN			MEAN			MEAN	
	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT
	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE
DAY	(cfs)	(mg/L)	(tons/day)	(cfs)	(mg/L)	(tons/day)	(cfs)	(mg/L)	(tons/day)
		JULY			AUGUST		SE	EPTEMBER	
1	227000	163	100000	136000	86	31500	172000	162	75400
2	219000	133	78400	129000	85	29700	163000	162	71400
3	217000	155	91000	122000	73	24000	156000	140	59100
4	213000	144	82700	121000	75	24600	144000	125	48700
5	209000	146	82700	117000	74	23300	133000	101	36300
6	204000	125	69100	116000	90	28300	126000	96	32600
7	200000	103 101	55700 52400	116000	92	28900 26700	120000	84	27100 26900
8	193000 188000	98	52400 49800	119000 110000	83 76	26700 22600	120000	83 81	26900 26600
9		98 87	49800 43100	110000			121000 119000	81 77	24800
10	184000	8 /	43100	110000	72	21400	119000	//	24800
11	183000	88	43300	114000	80	24500	117000	77	24300
12	188000	98	49900	110000	80	23600	123000	80	26500
13	189000	101	51300	116000	87	27300	125000	81	27300
14	183000	92	45600	127000	77	26300	124000	81	27000
15	174000	94	44200	129000	73	25500	124000	84	28200
16	161000	113	49100	128000	73	25100	123000	84	28000
17	149000	90	36100	134000	71	25700	e121000	85	27800
18	150000	113	46000	131000	74	26100	e123000	90	29700
19	146000	82	32300	126000	80	27300	e126000	104	35300
20	143000	80	31000	151000	153	62500	e129000	162	56500
21	154000	78	32200	153000	159	64600	e125000	145	48900
22	155000	88	36700	151000	148	60200	e116000	82	25500
23	151000	82	33500	149000	119	47700	e110000	89	26400
24	152000	85	35000	190000	156	80200	e109000	89	26200
25	148000	72	28800	219000	183	108000	e110000	93	27600
26	146000	80	31400	215000	186	108000	e105000	92	26100
27	139000	95	35700	208000	176	98700	e97700	95	25000
28	138000	86	32000	197000	168	89200	e90600	94	22900
29	132000	91	32600	187000	166	83600	e91200	86	21100
30	141000	87	33200	185000	128	64200	e95300	102	27300
31	142000	85	32600	181000	121	59100			

e Estimated

#### 07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO

LOCATION.--Lat  $38^{\circ}40^{\circ}07^{\circ}$ , long  $90^{\circ}19^{\circ}26^{\circ}$ , St. Louis County, Hydrologic Unit 07140101, on top of left downstream abutment of Purdue Ave. bridge, 3.78 mi south of Interstate 70, and 2.01 mi east of Interstate 170.

DRAINAGE AREA.--8.94 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- September 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 491.97 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for discharges below 1  $\mathrm{ft^3/s}$  and above 1,400  $\mathrm{ft^3/s}$ , which are poor. U.S.G.S. satellite telemeter at station.

		DISCHA	RGE, CUB	IC FEET PER		WATER YE Y MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.06 0.00 0.00	0.47 9.4 0.40 0.10 0.09	2.1 1.5 0.64 0.39 0.57	0.08 0.32 0.05 0.04 0.07	14 2.9 1.8 1.3 0.65	0.36 71 8.6 1.7 2.7	0.52 2.3 0.52 0.42 0.38	0.70 0.49 0.27 0.92 0.23	0.31 0.95 0.19 0.45 45	0.08 0.67 1.6 0.46 0.09	0.02 0.08 0.10 0.10 5.5	0.08 0.09 0.16 0.14 0.12
6 7 8 9 10	1.4 0.17 0.12 0.14 136	0.09 0.08 0.10 0.10	3.0 0.43 0.24 0.16 0.09	1.7 0.84 0.68 2.3 0.72	0.57 0.51 0.41 0.34 5.2	1.3 0.68 0.58 80 2.2	0.36 4.5 49 3.8 0.81	43 248 102 148 5.8	1.3 0.41 0.30 0.90 7.8	0.08 0.06 0.08 0.05 0.06	160 0.38 0.05 0.03 0.02	0.12 0.11 0.10 0.13 0.15
11 12 13 14 15	155 17 24 6.9 49	0.06	0.06 48 5.6 62 8.6	0.08 0.41 0.09 0.31 0.12	0.87 0.51 0.45 0.41 0.42	1.0 0.72 0.42 0.28 52	0.36 13 0.55 0.92 0.40	1.4 155 150 8.1 2.6	267 233 2.8 0.52 0.23	3.8 6.7 1.2 0.07 0.04	0.68 1.6 2.4 3.5 0.28	0.19 0.14 0.16 0.15 0.20
16 17 18 19 20	19 1.1 0.38 0.28 0.22	0.04 0.06 0.73 1.4 0.06	149 106 6.7 2.2 1.1	0.06 0.06 0.05 4.5 0.93		4.5 1.3 0.72 31	0.41 0.86 0.38 238 39	29 117 9.7 2.3 1.2	0.18 0.18 0.13 0.35 0.18	41 2.5 34 1.3 0.14	0.06 0.07 58 0.79 0.20	0.19 56 1.6 39 35
21 22 23 24 25	0.19 1.5 13 93 2.5	0.03 0.02 0.02 188 0.85	0.73 10 1.2 0.46 0.33	1.1 0.52 7.5 6.6 0.34	0.72 0.13 1.1 0.07 3.7	1.3 0.51 0.42 15 95	41 4.1 1.3 12 1.2			0.06 65 14 0.35 0.05	0.50 0.15 3.4 0.47 0.19	0.89 0.25 0.14 0.08 0.06
26 27 28 29 30 31	0.35 0.11 1.9 0.08 0.10 0.08	6.7 0.82 44 28 44	0.32 0.45 0.41 0.18 0.08 0.05	0.16 0.13 0.12 15 143 196	2.7 0.87 0.39 	35 5.2 2.1 1.6 0.90 0.60	14	0.44 10 47 2.5 0.80 0.68	0.76 0.14 0.12 0.06 0.06	0.78 0.11 0.06 0.05 0.05 0.02	0.17 0.16 0.12 0.11 0.11 0.09	0.05 0.10 0.09 0.08 0.09
MEAN MAX MIN	18.5 155 0.00	10.9 188 0.02	13.3 149 0.05	12.4 196 0.04	2.78 32 0.07	13.8 95 0.28	18.4 238 0.36	35.4 248 0.23	19.7 267 0.06	5.63 65 0.02	7.72 160 0.02	4.52 56 0.05
STATIS	TICS OF M	ONTHLY ME	CAN DATA I	FOR WATER Y	EARS 199'	7 - 2002,	BY WATER	YEAR (WY	(1)			
MEAN MAX (WY) MIN (WY)	6.79 18.5 2002 3.11 1998	5.91 10.9 2002 1.17 2000	5.35 13.3 2002 1.23 1999	9.78 20.9 1999 2.36 2000	12.2 27.7 1999 2.78 2002	12.4 33.4 1998 3.61 2000	10.6 18.4 2002 3.81 2000	17.6 35.4 2002 4.20 1999	23.5 34.9 2000 5.46 2001	8.13 20.1 1998 0.87 2001	5.61 8.29 2000 0.95 2001	4.64 8.19 2001 1.29 1999
SUMMAR	Y STATIST	ics	F	OR 2001 CAL	ENDAR YEA	AR	FOR 2002	WATER YE	AR	WATER Y	EARS 1997	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN 10 PER 50 PER	MEAN T ANNUAL ANNUAL ANNUAL T DAILY ME SEVEN-DA M PEAK FI TANEOUS I CENT EXCE CENT EXCE CENT EXCE	EAN EAN Y MINIMUM OW CAGE OW FLOW EEDS	ſ	7.98  188 0.00 0.00 Jul 19 0.44 0.00	Nov 2 Many Day 25,Sep 2	24 ys 24	267 0.00 0.05 4070 <sup>a</sup> 13.51 0.00 s 42 0.52 0.06	Jun Oct 1,3 Jul Jun Jun Jun Geveral Da	11 ,4 28 11 11	10.2 13.7 5.55 711 0.00 0.00 5680 15.74 0.00 20 0.29 0.00	Jun 2 Eac At	2002 2001 24 2000 2h Year Times 2 1999 12 1999 2h Year

<sup>&</sup>lt;sup>a</sup> From rating extended above 653 ft<sup>3</sup>/s.

# 07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO--Continued (Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

DATE	TIME	SAMPLE TYPE	:	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 24	1322	ENVIRONM	IENTAL	593	8.9	89	7.5	73	13.6	35	11.2	1.78	48
DEC 11	1350	ENVIRONM	IENTAL	.07	4.2	34	7.6	1000	5.8	280	73.8	22.5	184
FEB 04 04 MAR	1048 1049	ENVIRONM REPLICAT		1.3	12.1	88 	7.8	1600	1.8	340 380	93.0 107	25.0 28.0	216
09 25 MAY	0217 0300	ENVIRONM ENVIRONM		157 717	7.7 12.2	78 97	7.6 7.5	2100 214	14.2 4.3	140	41.0	9.20	80 35
30 AUG	0955	ENVIRONM	IENTAL	.81	6.6	75	7.6	780	20.2	270	80.0	16.0	170
08	1440	ENVIRONM	IENTAL	.06	8.8	113	8.2	627	27.6	180	56.0	9.60	115
DATE	ANC WATER UNFLITD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 24 DEC	45	54	0		633	E2.0	.21	.230	.01	.220	E.86	2.6	26
11 FEB	184	225	0	131	E28	E4.3	1.90	<.020	<.01	.130	E.34	9.6	77
04 04 MAR	217	265 	0	290 290	<1 <1	2.1 2.1	.62 .62	1.60 1.60	.09	.130 .130	.25 .25	6.3	26 28
09 25	79 34	97 41	0		380	5.2	.23	.230	.03	.130	.93	4.3	52 
MAY 30	170	207	0		4	2.1	.72	.520	.07	.150	.21	7.9	26
AUG 08	114	139	0		12	.90	.12	.160	.02	.080	.13	1.6	27
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 24	K200000	K120000	134000	188	1	<1	1.0	1.3	5.2	330	5	84	.1
DEC 11	K47	500	600	3	2	<1	1.0	1.0	9.2	325	<1	998	<.1
FEB 04 04	1600 	K6650 	4200 	<3 <3	<1 1	<1 <1	<1.0 <1.0	<1.0 <1.0	24.0 30.0	50 56	<1 <1	649 722	<.1 <.1
MAR 09 25	K9500 	56000 	K5600 	245	2	<1	<1.0	3.1	6.8	252 	2	363 	<.1
MAY 30 AUG	7000	12600	2680	3	2	<1	<1.0	<1.0	4.9	112	<1	111	<.1
08	120	920	124	11	3	<1	<1.0	<1.0	3.4	46	<1	129	<.1

# 07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 24	1.7	<1	<1.0	91	18	E1	<2	<3	<3.0	<3	<20	<3	<2
DEC 11 FEB	3.6	1	<1.0	38									
04 04 MAR	4.2 4.6	2 2	<1.0 <1.0	128 65									
09 25	3.1	1	<1.0	137	E5 	 M	<2	 <3	 <.7	 <3	 <3	 <3	 <2
MAY 30	2.6	<1	<1.0	98									
AUG 08	3.1	1	<1.0	5									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 24	<2	<2	<3	<3	<3	<2	<2	<3	М	М	<.01	М	<2
DEC 11 FEB													
04 04													
MAR 09											<.01		
25 MAY	<2	<2	<1	<5	<3	<2	<2	<3	M	М		М	<2
30 AUG													
08													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 24	<40	4	5	E2	3	E3	<3	<2	<2	E3	<.02	.2	.04
DEC 11 FEB													
04 04													
MAR 09 25	 <40	 M	 E1	 M	 M	 M	 <3	 <2	 <2	 <6	<.02	.2	.06
MAY 30													
AUG 08													

# 07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO--Continued (Metropolitan Sewer District)

DATE	CHRY- SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (μg/L) (39398)
OCT 24	4	<2	<.02	.03	.007	М	M	М	<5	<.10	<.02	<.01	<.01
DEC 11													
FEB 04													
04 MAR													
09			<.02	.02	.015					<.10	<.01	<.01	<.01
25 MAY	E1	<4				<2	<2	<2	<5				
30 AUG													
08													
DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (µg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
OCT 24 DEC	9	М	<.01	<.009	<.01	<2	E3	М	<.006	E.04	<.020	<.01	<.006
11													
FEB 04													
04 MAR													
09			<.01	<.009	<.01				<.006	<.10	<.015	<.02	<.006
25 MAY	2	М				<2	М	М					
30 AUG													
08													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (μg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 24	<4	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	4	<3.0
DEC 11													
FEB 04													
04 MAR													
09					<.007	<.006	<.009		<.01	<.1			
25 MAY	<4	<3	<2	<2				<3			М	E1	<3.0
30 AUG 08													
00													

# 07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO--Continued (Metropolitan Sewer District)

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX- APHENE, TOTAL (µg/L) (39400)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLITED REC (µg/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34536)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (µg/L) (34396)	HEXA- CHLORO- BUT- ADIENE TOTAL (µg/L) (39702)	NAPHTH- ALENE TOTAL (μg/L) (34696)
OCT										
24	<.02	7	<1	<2	<2	M	<2	<2	<3	M
DEC										
11										
FEB										
04										
04										
MAR										
09	<.02		<1							
25		E2		<2	<2	M	<2	<2	<1	<5
MAY										
30										
AUG										
0.8										

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### 07010030 RIVER DES PERES TRIBUTARY AT PAGEDALE, MO

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LOCATION.--Lat 38°40'37", long 90°18'53", St. Louis County, Hydrologic Unit 07140101, on right culvert wall next to sidewalk handrail at Page Ave., 3.04 mi south of Interstate 70, and 2.37 mi east of Interstate 170.

DRAINAGE AREA.--2.01  $\mathrm{mi}^2$ .

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 504.56 ft above National Geodetic Vertical Datum of 1929. REMARKS.--Records poor.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	0.00 0.00 0.00 0.00 5.6	0.16 0.92 0.07 0.03 0.03	0.52 0.37 0.30 0.26 0.40	0.14 0.12 0.11 0.11 0.13	3.1 0.99 0.68 0.43 0.33	0.17 7.3 1.5 0.89 0.76	0.24 0.32 0.18 0.16 0.15	0.31 0.25 0.19 0.19 0.16	0.70 0.56 0.50 0.49 2.6	0.08 0.06 0.06 0.06 0.08	0.08 0.08 0.08 0.12 2.3	0.05 0.05 0.04 0.04 0.04	
6 7 8 9 10	0 01	0.02	0.39 0.26 0.25 0.25 0.24	0.19 0.14 0.16 0.16 0.14	0.31 0.28 0.25 0.22 0.45	0.68 0.51 0.48 12 0.97	0.14 0.34 6.2 0.37 0.17	4.3 58 16 24 1.5	0.58 0.46 0.42 0.80 0.87	0.07 0.04 0.03 0.02 0.03	73 0.52 0.22 0.13 0.09	0.05 0.05 0.06 0.06 0.06	
11 12 13 14 15	28 2.3 3.5 0.34 6.3	0.02 0.02 0.02 0.04 0.05	0.22 4.7 1.0 9.4 1.5	0.12 0.11 0.12 0.12 0.11	0.20 0.18 0.15 0.14 0.14	0.67 0.57 0.49 0.42 6.3	0.16 1.1 0.17 0.18 0.13	0.86 23 30 2.0 0.94	79 57 1.6 0.77 0.53	1.8 1.7 0.11 0.06 0.05	0.17 0.55 0.33 0.40 0.15	0.89 0.07 0.93 0.06 0.06	
16 17 18 19 20	1.7 0.17 0.09 0.06 0.05	0.05 0.06 0.21 0.25 0.10	19 16 1.5 0.72 0.52	0.10 0.10 0.11 0.50 0.15	0.15 0.16 0.16 3.4 0.50	1.1 0.58 0.43 2.5 1.2	0.12 0.10 0.09 27 7.4	3.7 23 4.0 1.9 1.4	0.40 0.34 0.31 0.27 0.24	2.3 0.24 1.7 0.19 0.08	0.08 0.08 6.1 0.37 0.20	0.06 1.6 0.24 2.6 3.5	
21 22 23 24 25	0.05 1.2 11	0.10	0.43 0.88 0.38 0.31 0.29	0.22 0.14 0.76 0.40 0.10	0.20 0.17 0.16 0.16 0.42	0.49 0.37 0.34 1.7	4.5 0.63 0.32 1.3 0.21	1.1 1.0 0.89 1.6 0.80	0.20 0.17 0.15 0.14 1.1	0.07 6.5 1.1 0.19 0.12	0.15 0.13 0.42 0.18 0.09	0.28 0.19 0.13 0.12 0.12	
26 27 28 29 30 31	0.27 0.17 0.15 0.14 0.13 0.12	0.30	0.25 0.24 0.23 0.18 0.18 0.17	0.09 0.09 0.09 1.4 18 32	0.31 0.21 0.16 	3.6 1.1 0.63 0.47 0.35 0.30	0.15 17 1.9 0.55 0.38	0.71 3.6 17 1.7 0.98 0.81	0.20 0.12 0.10 0.09 0.08	0.14 0.18 0.16 0.15 0.08	0.09 0.07 0.07 0.06 0.05	0.12 0.11 0.11 0.11 0.11	
MEAN MAX MIN	2.59 28 0.00	1.56 30 0.02	1.98 19 0.17	1.81 32 0.09	0.50 3.4 0.14	2.00 13 0.17	2.39 27 0.09	7.29 58 0.16	5.03 79 0.08	0.56 6.5 0.02	2.79 73 0.05	0.40 3.5 0.04	
STATIST	rics of Mo	ONTHLY MEA	N DATA FO	OR WATER Y	EARS 1997	- 2002,	BY WATER	YEAR (WY)					
MEAN MAX (WY) MIN (WY)	0.93 2.59 2002 0.39 2000	0.90 1.55 2002 0.12 2000	0.75 1.98 2002 0.33 1999	1.72 4.50 1999 0.32 2000	2.46 7.35 1999 0.50 2002	2.22 6.56 1998 0.37 2000	1.63 3.06 1998 0.48 2000	2.83 7.29 2002 0.51 1999	3.97 5.18 2000 0.45 2001	1.57 6.51 1998 0.25 1997	1.29 2.79 2002 0.12 2001	0.66 1.16 1998 0.14 1999	
SUMMAR	Y STATIST	ICS	FOR 2	2001 CALEN	IDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	ARS 1997	- 2002	
HIGHEST LOWEST HIGHEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	NUAL MEAN 1.04  GHEST ANNUAL MEAN WEST ANNUAL MEAN GHEST DAILY MEAN 30 Nov 2 WEST DAILY MEAN 0.00 Many Day NUAL SEVEN-DAY MINIMUM 0.00 Aug 27,Sep 11,2 XIMUM PEAK FLOW XIMUM PEAK STAGE ISTANTANEOUS LOW FLOW PERCENT EXCEEDS 1.8 PERCENT EXCEEDS 0.21 PERCENT EXCEEDS 0.00						79 0.00 0.02 1290 <sup>a</sup> 7.52 0.00 Oct 4.1 0.24	Jun 11 Oct 1-4,8 Nov 6 Aug 6 Aug 6 = 1-5,7-9		1.76 2.53 0.69 148 0.00 Many 0.00 2490 <sup>a</sup> 8.84 0.00 Many 2.4 0.21	Feb 'Days 200: At Time: Jul 2. Jul 2. Days 200:	1998 2001 7 1999 1-2002 s 2001 2 1998 2 1998 1-2002	

 $<sup>^{\</sup>rm a}$   $\,$  From rating extended above 48  ${\rm ft^3/s.}$ 

### 07010035 ENGELHOLM CREEK NEAR WELLSTON, MO

LOCATION.--Lat  $38^{\circ}40^{\circ}57^{\circ}$ , long  $90^{\circ}18^{\circ}10^{\circ}$ , in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.3, T.45 N., R.6 E., St. Louis County, Hydrologic Unit 07140101, on right downstream wingwall of Kingsland Ave. bridge, 2.70 mi south of Interstate 70, and 2.78 mi east of Interstate 170.

DRAINAGE AREA.--1.40 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1998 to current year. May 1997 to April 1998 published as Engelholm Creek at Pagedale (07010034).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Water-discharge records poor.

		DISCHAR	GE, CUBI	C FEET PER	SECOND, N			ER 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0 06	0.10 0.21 0.09 0.08 0.08	0.38 0.28 0.25 0.22 0.26	0.22 0.22 0.22 0.22 0.22	2.7 1.1 0.83 0.54 0.46	0.34 6.3 1.5 1.0 0.71	0.57 0.68 0.44 0.40 0.43	0.73 0.60 0.45 0.43 0.39	0.31 0.28 0.25 0.24 1.4	0.12 0.12 0.12 0.11 0.10	0.06 0.06 0.05 0.05 2.8	0.28 0.12 0.12 0.10 0.08
6 7 8 9 10	0.06 0.04 0.04 0.05 8.2	0.08 0.08 0.09 0.10 0.09	0.26 0.18 0.15 0.12 0.12	0.23 0.21 0.19 0.20 0.20	0.46 0.42 0.39 0.38 0.59	0.60 0.54 0.47 7.9 0.90	0.62 4.6 0.94	3.6 20 9.9 11 1.6	0.56 0.24 0.23 0.33 0.55	0.09 0.08 0.07 0.07 0.09	28 0.17 0.09 0.08 0.07	0.08 0.08 0.08 0.08 0.09
11 12 13 14 15	12 1.9 1.3 0.16 2.5	0.09 0.08 0.08 0.08 0.08	0.11 4.1 0.80 7.0 1.4	0.18 0.19 0.17 0.18 0.15	0.37 0.35 0.32 0.32 0.32	0.70 0.61 0.50 0.47 5.3	0.49 1.1 0.46 0.52 0.43	1.0 9.3 16 2.0 1.2	24 21 1.2 0.45 0.33	0.25 0.24 0.08 0.07 0.07	0.12 0.39 0.14 0.16 0.08	0.45 0.12 0.12 0.13 0.14
16 17 18 19 20	1.1 0.11 0.09 0.08 0.08	0.07 0.07 0.08 0.11 0.09	14 11 1.4 0.68 0.45	0.15 0.15 0.15 0.32 0.21	0.32 0.31 0.31 3.0 0.80	1.3 0.80 0.65 3.3 1.8	0.39 0.35 0.34 17 6.8	3.2 12 2.7 1.2 0.78	0.27 0.25 0.24 0.21 0.20	0.61 0.12 0.60 0.10 0.07	0.07 0.06 3.9 0.15 0.11	0.12 0.89 0.19 1.6 2.3
21 22 23 24 25	0.08 0.07 0.27 4.1 0.17	0.09 0.08 0.06 13 0.40	0.40 0.80 0.35 0.30 0.29	0.18 0.18 0.56 0.47 0.16	0.40 0.34 0.34 0.34 0.60	0.83 0.64 0.64 1.8 9.0	4.7 1.5 0.98 1.4 0.64	0.62 0.53 0.45 1.2 0.54	0.20 0.19 0.19 0.39 0.57	0.07 3.5 0.51 0.06 0.05	0.09 0.08 0.17 0.10 0.08	0.20 0.18 0.14 0.17 0.15
26 27 28 29 30 31	0.10 0.09 0.10 0.10 0.10	0.67 0.30 4.0 3.0 4.8	0.27 0.27 0.27 0.24 0.24 0.24	0.15 0.15 0.15 1.4 11	0.46 0.37 0.35 	4.1 1.6 1.1 0.96 0.75 0.64	0.49 9.2 2.9 1.1 0.86	0.38 1.7 5.1 1.0 0.44 0.35	0.17 0.17 0.16 0.14 0.14	0.17 0.06 0.06 0.05 0.05	0.08 0.08 0.07 0.09 0.10	0.14 0.15 0.16 0.16 0.15
MEAN MAX MIN	1.15 12 0.04	0.94 13 0.06	1.51 14 0.11	1.17 18 0.15	0.62 3.0 0.31	1.86 9.0 0.34	2.04 17 0.34	3.56 20 0.35	1.83 24 0.14	0.25 3.5 0.05	1.22 28 0.05	0.29 2.3 0.08
STATIST	rics of MC	ONTHLY MEA	N DATA F	OR WATER Y	EARS 1998	- 2002,	, BY WATER	R YEAR (WY)				
MEAN MAX (WY) MIN (WY)	0.68 1.15 2002 0.42 2001	0.76 1.39 1999 0.22 2000	0.74 1.51 2002 0.30 2001	1.26 3.14 1999 0.34 2001	1.41 3.29 1999 0.62 2002	0.99 1.86 2002 0.38 2000	1.05 2.04 2002 0.36 2000	1.70 3.56 2002 0.56 2001	1.45 2.29 2000 0.28 2001	0.93 2.86 1998 0.22 2001	0.75 1.40 1998 0.10 2001	0.45 0.86 1998 0.21 1999
SUMMARY					DAR YEAR	F	FOR 2002 V	VATER YEAR		WATER YE	ARS 1998 ·	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERCE 50 PERCE	C ANNUAL N	EAN EAN AN MINIMUM OW AGE OW FLOW EDS EDS		0.60 14 0.04 Seve 0.04  1.0 0.17 0.05	Dec 16 ral Days Aug 31		28 0.04 0.05 486 <sup>a</sup> 8.61 0.04 3.2 0.28 0.08	Aug 6 Oct 7,8 Jul 29 Aug 6 Aug 6 Oct 7-9	0. 0. 4 8.	38 40 48 04 Several 04 86 <sup>a</sup> 88 03 .6	Feb Zer Days 2001 Aug 3: Aug ( Jul 2: Sep 2:	2002 2001 7 1999 1,2002 1 2001 6 2002 2 1998 4 2001

 $<sup>^{\</sup>rm a}$  From rating extended above 52  ${\rm ft}^3/{\rm s}.$ 

# 07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued (Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1997 to current year.

REMARKS.--Published as Engelholm Creek at Pagedale (07010034) October 1997 to September 1998.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 24	1320	ENVIRONM	ENTAL	44	8.1	84	7.5	140	15.1	54	16.2	3.27	75
DEC 11	1255	ENVIRONM	ENTAL	.11	9.6	83	7.8	784	8.2	270	65.6	24.7	150
FEB 05	1230	ENVIRONM	ENTAL	.46	13.1	102	7.6	903	4.3	270	73.0	22.0	159
APR 08	0711	ENVIRONM	ENTAL	22	8.5	79	7.7	429	10.8	92	26.0	6.50	60
MAY 29	1300	ENVIRONM	ENTAL	.79	7.7	85	7.9	606	18.5	240	65.0	20.0	148
AUG 08	1400	ENVIRONM	ENTAL	.10	3.0	36	7.5	479	23.9	210	56.0	17.0	127
DATE	ANC WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 24 DEC	72	88	0		825	E1.7	.03	.270	.01	.140	E.77	4.6	22
11	150	184	0	75.1	<1	E1.1	.34	.830	.09	.160	E.18	4.1	19
FEB 05	157	191	0	100	4	.90	.12	1.70	.02	.080	.10	8.5	12
APR 08	60	73	0		169	1.3	.16	.420	<.01	.220	.27	2.3	11
MAY 29	150	183	0		38	.80	.18	.800	.06	.120	.18	3.6	18
AUG 08	128	156	0		2	1.0	.29	.640	.08	.170	.19	7.4	14
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 24	16000	17000	20500	285	1	<1	1.0	1.3	6.6	483	10	94	.1
DEC	42	480	52	285 <3	<1	1	1.0	1.0	1.6	83	<1	208	<.1
11 FEB					<del>-</del>						_		
05 APR	K2	32	K1	4	<1	<1	<1.0	<1.0	1.5	27	<1	245	<.1
08 MAY	3100	9200	7200	425	1	<1	<1.0	1.4	4.8	327	2	98	<.1
29 AUG	790	K870	K1370	100	2	<1	<1.0	<1.0	2.7	116	<1	218	<.1
08	4400	K3050	3050	3	2	<1	<1.0	<1.0	2.6	26	<1	159	<.1

# 07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 24	3.0	<1	<1.0	32	E3	М	<2	<3	<3.0	<3	<20	<3	<2
DEC 11	2.0	1	.1	11									
FEB 05	1.8	2	<1.0	111									
APR 08	1.5	<1	<1.0	159	<7	<3	<2	<3	<.7	<3	<3	<3	<2
MAY 29	3.2	<1	<1.0	106									
AUG 08	3.5	2	<1.0	4									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT	•	0	2		2		•	2			0.1		
24 DEC	<2	<2	<3	<3	<3	<2	<2	<3	М	М	<.01	М	<2
11 FEB													
05 APR 08	<2	<2	<1	 <5	<3	<2	<2	<3	 M	м	<.01	 M	<2
MAY 29		~2	~_				~2		M 	M	V.01	M	
AUG 08													
00													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZO- [A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 24	DINE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	[A]- ANTHRA- CENE WAT UNF (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L)	CHLORO- ETHOXY) METHANE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L)	PHENO- THION WATER UNFLTRD (µg/L)	DANE, TECH- NICAL TOTAL (µg/L)	PYRIFOS TOTAL RECOVER (µg/L)
OCT 24 DEC 11	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 24 DEC 11 FEB 05	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 24 DEC 11 FEB 05 APR 08	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932) E.01
OCT 24 DEC 11 FEB 05 APR 08 MAY 29	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  E2	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) E1	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E2	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2	PHENO- THION WATER UNFLIRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) E.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) E.01
OCT 24 DEC 11 FEB 05 APR 08 MAY	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  E2	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) E1	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2 M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E2	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2	PHENO- THION WATER UNFLIRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) E.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) E.01
OCT 24 DEC 11 FEB 05 APR 08 MAY 29 AUG	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  E2	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) E1	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2 M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E2	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02  <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) E.01
OCT 24 DEC 11 FEB 05 APR 08 MAY 29 AUG 08	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  E2  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLIRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  3 E1 DEF TOTAL (µg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  E1  M AZINON, TOTAL (µg/L) (39570)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2 M BI- ELDRIN TOTAL (µg/L) (39380)	[GHI]- PERY- LENE TOTAL (µg/L) (34521) E2  M  M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <methyl (34341)<="" (µg="" l)="" phthal-ate="" td="" total=""><td>CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2  &lt;2    DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  E4 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)</td><td>PHENO-THION WATER UNFLTRD (µg/L) (39786)  &lt;.02 &lt;.02 &lt;.02  ENDO-SULFAN I TOTAL (µg/L) (39388)</td><td>DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 &lt;.1 &lt;.1  ENDRIN WATER UNFLIRD (µg/L) (39390)</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)  E.01  &lt;.01  ETHION, TOTAL (µg/L) (39398)</td></methyl>	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2  <2    DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  E4 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO-THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02 <.02  ENDO-SULFAN I TOTAL (µg/L) (39388)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1 <.1  ENDRIN WATER UNFLIRD (µg/L) (39390)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  E.01  <.01  ETHION, TOTAL (µg/L) (39398)
OCT 24 DEC 11 FEB 05 APR 08 MAY 29 AUG 08	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L) (34247)  E2  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  3 E1 DEF TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  E1  M DI- AZINON, TOTAL (µg/L)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2 M DI- ELDRIN TOTAL (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E2 M M DIETHYL PHTHAL- ATE TOTAL (µg/L)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <1 METHYL PHTHAL-ATE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  E4 DISUL- FOTON UNFILT RECOVER (µg/L)	PHENO-THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02 <.02  ENDO-SULFAN I TOTAL (µg/L)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1  ENDRIN WATER UNFLIED REC (µg/L)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  E.01  <.01   STHION, TOTAL (µg/L) (µg/L)
OCT 24 DEC 11 FEB 05 APR 08 MAY 29 AUG 08  DATE  OCT 24 DEC 11 FEB	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  E2  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLIRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  3 E1 DEF TOTAL (µg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  E1 M AZINON, TOTAL (µg/L) (39570) <.02	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2 M BI- ELDRIN TOTAL (µg/L) (39380)  E.005	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E2 M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <methyl (34341)<="" (µg="" l)="" phthal-ate="" td="" total=""><td>CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2 &lt;2 &lt;2 BUT-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  E4 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)</td><td>PHENO- THION WATER UNFLTRD (µg/L) (39786)   &lt;.02</td><td>DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 &lt;.1 &lt;.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  &lt;.01</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)  E.01  &lt;.01   ETHION, TOTAL (µg/L) (39398)  &lt;.01</td></methyl>	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 BUT-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  E4 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  E.01  <.01   ETHION, TOTAL (µg/L) (39398)  <.01
OCT 24 DEC 11 FEB 05 APR 08 MAY 29 AUG 08  DATE  OCT 24 DEC 11 FEB 05 APR	DINE TOTAL (µg/L) (39120)  <40 <40 <40 SENE TOTAL (µg/L) (34320)  3	A- PYRENE TOTAL (μg/L) (34247)  E2  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (μg/L) (34230)  3 E1 DEF TOTAL (μg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (μg/L) (34242)  E1 M AZINON, TOTAL (μg/L) (39570)  <.02	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2 M BI- ELDRIN TOTAL (µg/L) (39380)  E.005	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E2 M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  E4 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 < < < ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <	PYRIFOS TOTAL RECOVER (µg/L) (38932)  E.01  <.01   ETHION, TOTAL (µg/L) (39398)  <.01
OCT 24 DEC 11 FEB 05 APR 08 MAY 29 AUG 08  DATE  OCT 24 DEC 11 FEB 05 APR 08 MAY	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  3	A- PYRENE TOTAL (µg/L) (34247)  E2  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  3 E1 DEF TOTAL (µg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  E1 M AZINON, TOTAL (µg/L) (39570)  <.02	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2 M BI- ELDRIN TOTAL (µg/L) (39380)  E.005	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E2 M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3  METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2  E4 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  E.01  <.01   ETHION, TOTAL (µg/L) (39398)  <.01
OCT 24 DEC 11 FEB 05 APR 08 MAY 29 AUG 08  DATE  OCT 24 DEC 11 FEB 05 APR 08	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)  3 E1	A- PYRENE TOTAL (μg/L) (34247)  E2  M CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR-AN- THENE TOTAL (µg/L) (34230)  3 E1 DEF TOTAL (µg/L) (39040)  <.02 <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  E1   M   AZINON, TOTAL (µg/L) (39570)  <.02   E.02	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  E2 M ELDRIN TOTAL (µg/L) (39380)  E.005 <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  E2 M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 SIDI-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)  M M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2 E4 E4 COUNTY OF THE PROOF TO THE PROOF THE PROOF TO THE PROOF T	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02  ENDO- SULFAN I TOTAL (µg/L) (39388)  <.02 <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  E.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01 <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  E.01  <.01   ETHION, TOTAL (µg/L) (39398)  <.01  <.01

#### 07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued (Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

INDENO

FONOFOS

(DY-METHYL FONATE) (1,2,3-CD) HEPTA-HEXA-METH-FLUOR-HEPTA-FLUOR-WATER CHLOR CHLORO-ISO-MALA-OXY-PARA-ANTHENE ENE WHOLE EPOXIDE CHLOR, BENZENE PYRENE PHORONE LINDANE THION, CHLOR, THION, MIREX, TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL DATE TOTAL TOT.REC TOTAL TOTAL TOTAL TOTAL  $(\mu g/L)$  $(\mu g/L)$ (µg/L)  $(\mu g/L)$  $(\mu g/L)$ (34376) (34381) (82614) (39420) (39410) (39700) (34403) (34408) (39340) (39530) (39480) (39600) (39755) OCT 24... 5 Μ <.01 < .009 <.01 <2 E2 Μ < .006 E.03 <.020 <.01 < .006 DEC FEB 05... 2 08... Μ <.01 < .009 < .01 <2 Μ Μ < .006 <.10 <.020 < .02 <.006 MAY 29... AHG 08... N-BUTYL N-NITRO NITRO-N-NITRO PARA-BENZYL -SODI-SODI-N--SODI-P,P'-P,P'-CHLORO-PENTA-PHTHAL-METHYL-PROPYL-PHENYL-DDD P.P'-DDT META PARA-CHLORO-PHENAN-PHENOL UNFILT UNFILT DDE. PCB. PHENOL THRENE ATE AMINE AMINE AMINE CRESOL THION. UNFILT. DATE TOTAL TOTAL TOTAL TOTAL RECOVER TOTAL RECOVER TOTAL TOTAL TOTAL TOTAL TOTAL WATER (µg/L) (34292) (µg/L) (34438) (µg/L) (34433) (µg/L) (39360) (µg/L) (39365) (µg/L) (34452) (µg/L) (39540) (µg/L) (39516) (µg/L) (39032) (µg/L) (39370) (34428)(34461)(34694)OCT 24... <3 <2 E.005 <.006 <.009 <3 <.01 E1 3 <4 <3 <.1 < 3.0 DEC 11 \_\_ FEB 05... APR 08... <4 <3 <2 <2 <.007 <.006 <.009 <3 <.01 <.1 Μ E2 E.1

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX- APHENE, TOTAL (µg/L) (39400)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34536)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (µg/L) (34396)	HEXA- CHLORO- BUT- ADIENE TOTAL (µg/L) (39702)	NAPHTH- ALENE TOTAL (µg/L) (34696)
OCT 24	<.02	4	<1	<2	<2	<2	<2	<2	<3	М
DEC 11										
FEB 05										
APR 08 MAY	<.02	E2	<1	<2	<2	М	<2	<2	<1	М
29 AUG										
08										

K--Results based on colony count outside the acceptable range (non-ideal colony count).

MAY 29... 08...

E--Laboratory estimated value.
M--Presence of material verified, but not quantified.

<sup>&</sup>lt;--Numeric result is less than the value shown.

#### 07010075 DEER CREEK AT LADUE, MO

LOCATION.--Lat 38°36'58", long 90°21'50", St. Louis County, Hydrologic Unit 07140101, on left upstream bank at bridge to Rock Hill Quarry, on McCarthy Construction Company complex, 5 mi east of I-270, 0.93 mi south of Highway 64/40, 0.17 mi west of McKnight.

DRAINAGE AREA.--21.4 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- May 31, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

 ${\tt REMARKS.--Water-discharge\ records\ fair\ except\ for\ discharges\ below\ 1\ ft^3/s\ and\ above\ 800\ ft^3/s\ ,\ which\ are\ poor.}$ 

EXTREMES FOR CURRENT YEAR.--For the period May 31 to Sept. 30, maximum discharge,  $4,100~{\rm ft}^3/{\rm s}$  (from rating extended above 364  ${\rm ft}^3/{\rm s}$ ) Sept. 9, gage height 12.24 ft; minimum, 0.00 ft $^3/{\rm s}$ , many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0.87	1.4	0.00	0.00
2									0.0	5.8	2.7	0.00
3									13	0.16	18	0.00
4									28	40	0.0	0.00
5									2.3	1.9	0.00	0.00
									2.5	2.,,	0.00	0.00
6									48	0.0	0.00	0.00
7									0.71	0.00	0.00	0.00
8									0.0	0.00	0.00	85
9									0.00	0.00	0.00	187
10									0.00	0.00	0.00	2.1
11									0.00	0.00	0.00	0.52
12									0.00	4.0	0.00	0.24
13									0.00	0.09	0.00	0.02
14									3.5	0.00	0.00	0.00
15									25	0.00	0.00	0.00
16									0.03	0.00	0.00	0.00
17									0.00	0.00	0.00	0.00
18									0.00	57	0.00	73
19									0.00	6.5	0.00	4.0
20									88	28	0.00	0.21
21									26	1.1	0.00	0.44
22									1.3	0.04	0.00	0.05
23									0.01	0.46	0.03	0.00
24									0.00	18	2.0	0.00
25									0.00	0.04	0.01	0.00
26									0.00	0.00	0.00	0.00
27									0.00	0.00	0.00	0.00
28									0.39	0.00	0.00	0.00
29									0.09	0.00	0.00	0.00
30									15	0.00	0.00	0.00
31								17		0.00	0.00	
MEAN									8.41	5.31	0.73	11.8
MAX									88	57	18	187
MIN									0.00	0.00	0.00	0.00

# 07010075 DEER CREEK AT LADUE, MO--Continued (Metropolitan Sewer District)

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2001 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
21 30	0234 0935	ENVIRONM ENVIRONM		62 e.01	5.9 3.0	65 33	7.5 7.6	292 645	20.6 19.0	90 160	29.0 43.0	4.20 12.0	66 84
AUG 28	1200	ENVIRONM	ENTAL	e.01	4.7	55	7.3	611	21.7	150	34.0	16.0	54
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)
MAY 21 30	68 81	83 99	0	80 10	1.6 1.2	.16 .49	.650 .930	.06	.140 .160	.31	3.9 4.2	24 9	23000 K860
AUG 28	52	64	0	6	<.20	.090	.790	.140	.12	.150	5.6	15	170
DATE	COLI- FORM, FECAL, 0.7 UM-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (col./ as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED(µg/L as Cr)(01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)
MAY 21 30	71000 1100	25000 1700	84 25	2	<1 <1	<1.0 <1.0	1.0 <1.0	6.6 2.3	142 99	1 <1	120 478	<.1 <.1	2.2 3.1
AUG 28	600	158	<3	1.0	<1	<1.0	<1.0	<1.0	<2	<1	<1	<.1	<1.0
DATE	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L As Ag) (01075)	ZINC, DIS- SOLVED (µg/L Aa Zn) (01090)	ALDRIN, TOTAL (µg/L) (39330)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)
MAY 21 30	<1 2	<1.0 <1.0	67 60	<.01	<.21	<.1	E.01	<.02	.13	E.005	<.03	<.01	<.01
AUG 28	2	<1.0	22										
DATE	ETHION, TOTAL (µg/L) (39398)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (µg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- THION, TOTAL (µg/L) (39540)
MAY 21 30	<.01	<.01	<.009	<.01	<.006	E.03	<.015	<.01	<.006	<.007	<.006	<.009	<.01
AUG 28													

# 07010075 DEER CREEK AT LADUE, MO--Continued (Metropolitan Sewer District)

				BENZENE	BENZENE	BENZENE
				1,3-DI-	1,4-DI-	O-DI-
				CHLORO-	CHLORO-	CHLORO-
			TOX-	WATER	WATER	WATER
	PCB,	PHORATE	APHENE,	UNFLTRD	UNFLTRD	UNFLTRD
Date	TOTAL	TOTAL	TOTAL	REC	REC	REC
	(µq/L)	(µq/L)	$(\mu g/L)$	$(\mu g/L)$	(µq/L)	(µq/L)
	(39516)	(39023)		(34566)		(34536)
MAY						
21	<.1	<.02	<1	<.1	<.1	<.1
30						
AUG						
28						

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

#### 07010075 DEER CREEK AT LADUE, MO--Continued

LOCATION.--Lat 38°36'58", long 90°21'50", St. Louis County, Hydrologic Unit 07140101, on left upstream bank at bridge to Rock Hill Quarry, on McCarthy Construction Company complex, 5 mi east of I-270, 0.93 mi south of Highway 64/40, 0.17 mi west of McKnight.

DRAINAGE AREA. -- 21.4 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 31, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

 ${\tt REMARKS.--Water-discharge\ records\ fair\ except\ for\ discharges\ below\ 1\ ft^3/s\ and\ above\ 800\ ft^3/s,\ which\ are\ poor.}$ 

		DISCH	ARGE, CUBI	C FEET PEF		, WATER YE LY MEAN V		ER 2001 TO	) SEPTEMB	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 53	0.00 2.1 0.34 0.01 0.00	2.9 0.41 0.14 0.20 0.09	0.00 e0.00 e0.00 0.00	43 7.8 3.0 1.3 0.35	0.08 106 12 2.6 2.1	1.0 1.4 0.38 0.60 0.22	0.47 0.27 0.11 0.02 0.00	0.39 0.39 0.30 0.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	2.3 0.15 0.02 0.00 207	0.00 0.00 0.00 0.00 0.00	0.48 0.14 0.02 0.00 0.00	0.00 0.00 0.00 0.03 0.00	0.21 0.13 0.12 0.12 0.33	2.2 0.65 0.41 146 5.0	0.08 0.67 55 6.2 1.3	27 332 269 392 19	2.0 0.27 0.14 1.0 6.4	0.00 0.00 0.00 0.00 0.00	7.5 0.02 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	226 46 26 5.4 48	0.00 0.00 0.00 0.00 0.00	0.00 53 17 105 5.8	0.00 0.00 0.00 0.15 0.00	0.52 0.10 0.07 0.06 0.07	1.9 1.4 0.87 0.53	0.49 5.7 0.97 0.47 0.14	7.2 134 390 20 6.5	453 720 14 5.1 1.3	0.00 0.00 0.00 0.00	0.29 0.84 0.48 0.24 0.0	0.00 0.00 0.00 0.00
16 17 18 19 20	37 1.5 0.39 0.10 0.01	0.00 0.00 4.6 1.0 0.07	309 290 15 2.7 0.46	0.00 0.00 0.00 0.20 0.12	0.02 0.03 0.04 31 5.9	16 2.9 1.2 43 22	0.02 0.31 0.09 76 70	28 223 33 7.5 3.8	0.01 0.00 0.00 0.00 0.00	1.9 2.5 3.5 0.45 0.00	0.00 0.00 38 0.49 0.00	0.00 17 1.3 41 31
21 22 23 24 25	0.00 0.00 2.9 113 7.2	0.00 0.00 0.00 272 3.7	0.18 3.7 0.41 0.05 0.00	0.00 0.00 1.1 6.6 0.06	0.50 0.11 0.09 0.09 0.36	4.2 2.4 1.7 2.7	49 6.6 1.4 61 7.2	2.6 1.6 1.1 3.7 1.6	0.00 0.00 0.00 24 4.9	0.00 2.5 7.2 0.06 0.00	0.00 0.00 0.00 0.00 0.00	0.33 0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.81 0.33 0.06 0.00 0.00	3.0 1.2 49 37 98	0.0 0.03 0.00 0.00 0.00	0.00 0.00 0.00 2.6 252 510	1.5 0.21 0.09 	43 13 5.3 3.2 2.0 1.1	0.71 187 42 4.6 1.3	0.55 9.5 31 5.2 0.88 0.38	0.20 0.00 0.00 0.00 0.00	0.04 0.06 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
MEAN MAX MIN	25.1 226 0.00	15.7 272 0.00	26.0 309 0.00	24.9 510 0.00	3.47 43 0.02	22.3 171 0.08	19.4 187 0.02	62.9 392 0.00	42.2 720 0.00	0.59 7.2 0.00	1.54 38 0.00	3.02 41 0.00
STATIS	TICS OF M	NONTHLY ME	EAN DATA F	OR WATER Y	EARS 200	01 - 2002	, BY WATER	R YEAR (W	<b>Y</b> )			
MEAN MAX (WY) MIN (WY)	25.1 25.1 2002 25.1 2002	15.7 15.7 2002 15.7 2002	26.0 26.0 2002 26.0 2002	24.9 24.9 2002 24.9 2002	3.47 3.47 2002 3.47 2002	22.3 22.3 2002 22.3 2002	19.4 19.4 2002 19.4 2002	62.9 62.9 2002 62.9 2002	25.3 42.2 2002 8.41 2001	2.95 5.31 2001 0.59 2002	1.14 1.54 2002 0.73 2001	7.38 11.8 2001 3.02 2002
SUMMAR	Y STATIST	CICS			FOR	R 2002 WAT	TER YEAR			WATER YE	EARS 2001	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN 10 PER 50 PER	MEAN T ANNUAL AN	MEAN MEAN CAN AY MINIMUN COW CAGE COW FLOW CEDS CEDS	1		1	0.00 <i>I</i> 6910 <sup>a</sup> L6.30	Jun 12 any Days At Times Jun 12 Jun 12 any Days			20.8 20.8 720 0.00 Many 0.00 6910 <sup>a</sup> 16.30 0.00 Many 42 0.15	y Days 20 A Jun Jun	t Times 12 2002 12 2002

e Estimated

a From rating extended above 364 ft<sup>3</sup>/s.

# 07010075 DEER CREEK AT LADUE, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2001 to current year.

DATE	TIME	SAMPL TYPE	E	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 05	0707	ENVIRON	MENTAL	18	8.1	83	7.6	414	15.4	140	40.0	8.85	75
DEC 10	1240	ENVIRON	MENTAL	e.01	7.4	56	7.2	989	3.1	280	83.4	17.4	189
FEB 05	1400	ENVIRON	MENTAL	.28	8.3	62	7.7	1240	3.0	310	94.0	19.0	227
MAR 09	0232	ENVIRON	MENTAL	85	7.7	77	7.5	2190	13.2	190	58.0	10.0	119
MAY 30	0825	ENVIRON	MENTAL	1.0	6.3	70	7.8	742	19.8	250	77.0	14.0	170
AUG 05	1440	ENVIRON	MENTAL	e.01	5.0	70	7.7	580	32.5	170	49.0	12.0	129
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L a HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD s (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 05	75	92	0		64	E2.6	.38	1.30	.06	.220	. 46	4.0	45
DEC 10	191	233	0	122	E9	E.40	.04	.030	<.01	.110	E.13	22	18
FEB 05	227	277	0	160	8	1.4	<.01	1.20	<.01	.080	.14	8.4	13
MAR 09	118	144	0		221	2.2	.09	.720	.03	.070	.40	7.3	52
MAY 30	171	209	0		31	.70	.07	.840	.03	.110	.14	4.6	19
AUG 05	132	161	0		12	1.0	.07	<.020	<.01	.080	.15	5.2	20
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 05	K130000	K91000	K110000	115	2	<1	1.0	1.0	7.3	171	1	114	<.1
DEC 10	780	1100	K120	21	1	<1	1.0	1.0	2.4	26	<1	194	<.1
FEB 05	К3	39	71	12	<1	<1	<1.0	<1.0	1.9	31	<1	143	<.1
MAR 09	6200	9000	11600	317	3	<1	<1.0	4.2	5.9	208	<1	181	<.1
MAY 30	620	K2200	630	74	2	<1	<1.0	<1.0	3.4	75	<1	192	<.1
AUG 05	K29	48	K23	6	4	<1	<1.0	<1.0	1.8	11	<1	264	<.1

# 07010075 DEER CREEK AT LADUE, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 05	1.9	<1	<1.0	54	<7	М	<2	<3	<3.0	<3	E5	<3	<2
DEC 10	1.9	<1	<1.0	51									
FEB 05	1.6	<1	<1.0	178									
MAR 09	3.1	<1	<1.0	48	<7	М	<2	<3	<.7	<3	<3	<3	<2
MAY 30	2.2	<1	<1.0	57									
AUG 05	3.0	<1	<1.0	<2									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L)	2- CHLORO- PHENOL TOTAL (µg/L)	2- NITRO- PHENOL TOTAL (µg/L)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L)	4- NITRO- PHENOL TOTAL (µg/L)	ACE- NAPHTH- ENE TOTAL (µg/L)	ACE- NAPHTH- YLENE TOTAL (µg/L)	ALDRIN, TOTAL (µg/L)	ANTHRA- CENE TOTAL (µg/L)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L)
OCT	(34581)	(34586)	(34591)	(34631)	(34657)	(34636)	(34641)	(34646)	(34205)	(34200)	(39330)	(34220)	(34447)
05 DEC	<2	<2	М	<3	М	<2	<2	E2	М	<2	<.01	М	<2
10 FEB													
05 MAR													
09 MAY	<2	<2	<1	<5	<3	<2	<2	<3	М	М	<.01	М	<2
30 AUG 05													
05													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)		BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 05	<40	М	М	М	М	М	<3	<2	<2	E1	<.02	<.1	<.01
DEC 10													
FEB 05													
MAR 09	<40	E2	4	E1	E1	3	<3	<2	<2	E4	<.02	<.1	<.01
MAY 30													
AUG 05													
DATE	CHRY- SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
OCT 05	М	<2	<.02	.06	<.006	М	М	М	М		<.02	<.01	<.01
DEC 10													
FEB 05													
MAR 09	3	<4	<.02	.02	.008	<2	М	М	E1	<.10	<.01	<.01	<.01
MAY 30													
AUG 05													

### 07010075 DEER CREEK AT LADUE, MO--Continued (Metropolitan Sewer District)

DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (μg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
OCT 05	М	M	<.01	<.009	<.01	<2	М	М	<.006	E.06	<.020	<.01	<.006
DEC 10													
FEB 05													
MAR 09	6	М	<.01	<.009	<.01	<2	3	М	<.006	<.10	<.015	<.02	<.006
MAY 30													
AUG 05													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 05	М	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	E1	М	<3.0
DEC 10													
FEB 05													
MAR 09	M	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	M	3	<3.0
MAY 30													
AUG 05													
03													
	DATE	PHOR TOT ( µg ( 390	AL TO: /L) (μο	AL TOTAL (µg.	X- CHLC NE, WAT AL RE /L) (µg	4- 1,3- RI- CHLO DRO- WAT UNF UNFI CC RE (/L) (µg	DI- 1,4- DRO- CHLO TER WAT TRD UNFI C RE	-DI- O-D DRO- CHLC PER WAT LTRD UNFL EC RE 1/L) (µg	OI - HEX ORO - CHLO OER WAT OTRD UNFL OC RECO O/L) (µg.	A- HEX RO- CHLO ER BUT TRD ADIE VER TOT /L) (µg	ORO- '- NAPH 'NE ALE 'AL TOT /L) (µg	NE AL /L)	
	OCT 05	<.	06 I	1 <1	<2	. <2	? <2	2 <2	<2	<3	. M	í	
	DEC 10	٠.						<2					
	FEB	_						-					
	05 MAR	_											
	09 MAY	<.	02 4	ł <1	<2	? <2	? <2	2 <2	<2	<1	. M	I	
	30 AUG 05	-										-	

e--Estimated discharge.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

#### 07010086 DEER CREEK AT MAPLEWOOD, MO

LOCATION.--Lat 38°36'04", long 90°19'34", St. Louis County, Hydrologic Unit 07140101, on right downstream pier of Big Bend Road bridge, 0.44 mi north of Interstate 44, 4.35 mi east of U.S. 67 (Lindbergh Blvd.), and 0.63 mi upstream of River Des Peres Drainage Channel.

DRAINAGE AREA. -- 36.5 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year. Annual peaks only for 1969-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 415.75 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for estimated daily discharges and those below 2  $\mathrm{ft^3/s}$  and above 2,100  $\mathrm{ft^3/s}$ , which are poor. U.S.G.S. satellite telemeter at station.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	e0.49 e0.44 e0.40 0.50 98	3.3 8.2 1.5 0.70 0.61	8.4 3.7 2.6 2.2 2.3	e1.2 e1.1 e1.3 e1.2 e1.7	74 14 7.6 5.3 4.0	2.1 176 22 4.1 3.5	3.0 3.9 3.1 2.2 2.2	4.3 3.5 2.8 2.3 1.9	2.6 2.3 2.3 2.4 47	1.4 1.1 1.1 0.92 0.97	1.1 1.0 1.2 1.6 0.85	1.2 1.2 1.3 1.4 1.3		
6 7 8 9 10	6.2 1.1 0.62 0.60 315	0.75 1.0 1.7 1.9 2.0	3.5 2.0 1.6 1.4 3.3	e2.4 e1.6 e1.3 e1.7 e4.8	3.4 3.0 2.7 2.4 4.5	2.9 2.4 2.0 229 10	1.7 4.6 115 11 4.1	74 410 369 477 25	6.7 2.7 2.3 9.1	1.0 1.3 0.88 1.3 0.98	48 3.0 1.4 1.2	1.2 1.2 1.7 2.0 1.2		
11 12 13 14 15	313 94 46 22 73	e1.5 e1.0 0.77 0.91 1.0	1.2 84 34 173 15	e3.5 e2.1 e1.6 e1.3	3.2 2.6 2.2 2.3 2.7	4.9 4.4 3.5 2.9	4.5 e6.0 5.5 4.2 2.3	8.2 136 505 29 9.2	555 860 24 6.6 4.0	1.7 1.5 1.3 0.87 0.95	21 14 5.0 4.2 2.0	1.2 1.4 1.4 1.5 3.0		
16 17 18 19 20	68 4.9 2.5 1.7	1.1 1.0 3.2 5.4 1.7	428 421 28 9.7 5.4	1.5 1.1 0.99 5.1 3.6	2.3 1.8 1.8 83	29 5.8 4.1 70 37	1.9 1.9 2.0 117 147	e80 e308 53 11 5.9	3.1 2.6 2.5 2.3 2.1	19 7.3 26 5.8 2.8	1.6 1.5 96 6.9 2.3	2.5 43 8.3 56 79		
21 22 23 24 25	1.1 1.4 12 153 13	1.3 1.2 1.3 419 8.6	3.8 8.4 5.4 2.6 2.3	2.5 1.8 6.1 18 2.8	4.7 2.7 2.3 2.2 3.7	7.5 4.5 3.9 7.5 247	91 14 5.0 112 17	4.2 3.6 2.9 6.8 4.3	2.0 1.3 0.96 24 14	1.9 6.3 19 3.1 1.7	2.1 1.5 3.1 1.9	4.5 1.4 1.1 1.5 1.0		
26 27 28 29 30 31	2.9 2.1 1.6 1.3 1.3	4.7 5.3 75 58 162	2.3 2.6 2.0 1.7 e1.4 e1.3	2.2 1.3 1.1 7.2 338 694	5.8 3.8 2.5 	65 27 9.5 6.2 5.0 3.7	4.3 328 83 12 6.0	2.1 80 128 13 3.2 3.2	2.6 2.0 1.5 1.2	3.2 2.1 1.7 1.6 4.3 1.5	1.2 1.2 1.3 1.3	0.94 1.0 1.0 0.85 0.92		
MEAN MAX MIN IN.	40.0 315 0.40 1.26	25.8 419 0.61 0.79	40.8 428 1.2 1.29	36.0 694 0.99 1.14	9.52 83 1.8 0.27	36.1 247 2.0 1.14	37.2 328 1.7 1.14	89.2 505 1.9 2.82	54.4 860 0.96 1.66	4.02 26 0.87 0.13	7.50 96 0.85 0.24	7.51 79 0.85 0.23		
STATIS	TICS OF M	ONTHLY MEA	AN DATA F	OR WATER Y	EARS 1996	5 - 2002,	BY WATER	YEAR (WY	()					
MEAN MAX (WY) MIN (WY)	15.6 40.0 2002 8.23 1998	25.4 82.3 1997 1.93 2000	12.3 40.8 2002 2.09 1999	26.8 48.4 1999 5.75 2000	38.9 77.0 1999 9.52 2002	35.7 108 1998 7.92 2000	25.0 46.9 1998 9.27 2000	37.8 89.2 2002 15.4 1999	54.8 101 1998 18.9 2001	25.2 48.5 1998 2.23 1997	17.2 35.3 1996 3.67 2001	11.2 28.8 1996 2.15 1999		
SUMMAR	Y STATIST	ICS	FC	R 2001 CAL	ENDAR YEA	AR.	FOR 2002	WATER YE	EAR	WATER Y	EARS 1996	- 2002		
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			22.0 428 0.40 0.48  8.20 62 2.4 0.80	Dec 1 Oct Sep 2	3	860 0.40 1.0 4950 14.44 0.40 12.10 80 2.7	Jun Oct Sep <sup>a</sup> Jun Jun Oct 3	12 3 24 12 12 12 3,4	26.5 36.5 15.7 1980 0.24 0.30 6550 <sup>6</sup> 16.41 0.09 9.88 48 2.2	Jun 1 Oct 1 Oct 3 Jun 2 Oct 1	1998 2001 24 2000 20 1996 1 1996 24 2000 24 2000 20 1996			

e Estimated

a From rating extended above 1,050 ft<sup>3</sup>/s.

# 07010086 DEER CREEK AT MAPLEWOOD, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2001 to current year.

DATE	TIME	SAMPLE TYPE	:	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 05	0954	ENVIRONM	IENTAL	247	7.2	74	7.5	180	15.8	64	20.2	3.42	44
DEC 10 10	1055 1100	ENVIRONM BLANK	IENTAL	1.3	7.6	60	7.5	1140	5.1	310	92.8 .11	18.6 .01	196
FEB 04	1235	ENVIRONM	IENTAL	5.3	12.2	92	7.6	1300	3.4	330	100	20.0	199
MAR 09	0327	ENVIRONM	IENTAL	392	8.5	85	6.3	2510	14.0	150	48.0	7.00	35
MAY 29	0810	ENVIRONM	IENTAL	13	5.2	57	7.7	531	19.2	160	50.0	8.90	111
AUG 05	1320	ENVIRONM	ENTAL	.75	6.5	88	7.7	1010	30.1	250	71.0	18.0	160
DATE	ANC WATER UNFLITD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 05	44	53	0		133	E1.8	.55	.690	.03	.150	.37	2.6	26
DEC 10 10	198	242	0	162 .05	E3 <1	E1.1 <.20	.54 .02	.880 <.020	.03 <.01	.090 <.010	E.11 E.02	13	27 9
FEB 04	201	246	0	210	6	.80	.18	1.90	.02	.080	.11	10	16
MAR 09	36	43	0		337	2.8	.24	.400	.03	.090	.65	34	46
MAY 29	112	137	0		19	1.2	.24	.970	.07	.160	.23	4.6	25
AUG 05	160	195	0		27	1.9	.76	.690	.21	.320	.46	6.6	20
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 05	K67000	59000	77000	141	2	<1	1.0	1.4	5.7	201	1	69	<.1
DEC 10 10	K170 	350 	K117	13 6	1 <1	<1 <1	1.0 1.0	1.0 <1.0	2.5 1.0	93 <2	<1 <1	193 1	<.1 <.1
FEB 04	К67	400	K63	7	<1	<1	<1.0	<1.0	2.4	18	<1	242	<.1
MAR 09	8500	49000	16200	372	3	<1	<1.0	2.6	5.4	265	2	191	<.1
MAY 29 AUG	13000	K22200	K22800	252	2	<1	<1.0	1.2	5.3	236	1	75	<.1
05	450	780	560	4	5	<1	<1.0	<1.0	2.0	27	<1	389	<.1

# 07010086 DEER CREEK AT MAPLEWOOD, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 05	1.2	<1	<1.0	30	<7	М	<2	<3	<3.0	<3	E5	<3	<2
DEC 10 10	2.9	<1 <1	<1.0 1.0	33 2					 				
FEB 04	2.3	2	<1.0	66									
MAR 09	2.9	<1	<1.0	134	E5	М	<2	<3	<.7	<3	<3	<3	<2
MAY 29 AUG	2.0	<1	<1.0	82									
05	3.3	1	<1.0	<2									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 05 DEC	<2	<2	<3	<3	М	<2	<2	<3	М	<2	<.01	М	<2
10													
FEB 04													
MAR 09 MAY	<2	<2	<1	<5	<3	<2	<2	<3	М	М	<.01	М	<2
29 AUG													
05													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZO- [A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)		BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 05	<40	М	М	М	М	М	<3	<2	<2	E2	<.02	<.1	<.01
DEC 10													
10 FEB													
04 MAR													
09 MAY	<40	E3	5	E2	E2	4	<3	<2	<2	E3	<.02	<.1	<.01
29 AUG													
05													

# 07010086 DEER CREEK AT MAPLEWOOD, MO--Continued (Metropolitan Sewer District)

DATE	CHRY- SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLITRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLITED REC (µg/L) (39390)	ETHION, ΤΟΤΑL (μg/L) (39398)
05 DEC	М	<2	<.02	.03	<.006	М	М	M	М		<.02	<.01	<.01
10 10													
FEB													
04 MAR													
09 MAY	4	<4	<.02	<.02	.007	<2	М	М	<5	<.10	<.01	<.01	<.01
29 AUG													
05													
DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (µg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
OCT 05 DEC	E1	М	<.01	<.009	<.01	М	М	<2	<.006	E.08	<.020	<.01	<.006
10													
10 FEB													
04 MAR													
09 MAY	7	М	<.01	<.009	<.01	<2	4	М	<.006	<.10	<.015	<.02	<.006
29													
AUG 05													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 05 DEC	М	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
10 10													
FEB													
04 MAR													
09 MAY	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	М	3	<3.0
29 AUG													
05													

# 07010086 DEER CREEK AT MAPLEWOOD, MO--Continued (Metropolitan Sewer District)

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX- APHENE, TOTAL (µg/L) (39400)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34536)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (µg/L) (34396)	HEXA- CHLORO- BUT- ADIENE TOTAL (µg/L) (39702)	NAPHTH- ALENE TOTAL (µg/L) (34696)
OCT										
05	<.06	M	<1	<2	<2	<2	<2	<2	<3	M
DEC										
10										
10										
FEB										
04										
MAR										
09	<.02	5	<1	<2	<2	<2	<2	<2	<1	M
MAY										
29										
AUG										
05										

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### 07010090 MACKENZIE CREEK NEAR SHREWSBURY, MO

LOCATION.--Lat 38°34'37", long 90°19'24", St. Louis County, Hydrologic Unit 07140101, on right downstream bridge abutment at Resurrection Cemetery, 1.24 mi south of Interstate 44, 4.48 mi east of U.S. 67 (Lindbergh Blvd.), and 0.85 mi upstream of River Des Peres Drainage Channel.

DRAINAGE AREA. -- 3.49 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Record fair except for estimated daily discharges and those above 300  $\mathrm{ft}^3/\mathrm{s}$  and below 1  $\mathrm{ft}^3/\mathrm{s}$ , which are poor.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	0.09 0.08 0.08 0.10	0.34 2.9 0.32 0.29 0.27	e1.3 e0.90 e0.63 e0.52 e0.61	0.40 0.38 0.36 0.34 0.34	4.3 1.7 1.2 0.88 0.78	0.76 15 1.8 1.2 0.93	0.94 1.2 0.85 0.77 0.69	1.4 1.2 1.1 0.98 0.87	3.7 0.97 0.79 0.88 1.3	0.32 0.18 0.20 0.24 0.20	0.15 0.16 0.14 0.16 0.36	0.18 0.15 0.13 0.15 0.17	
6 7 8 9 10	0.47 0.78 0.16 0.13	e0.27 e0.26 e0.26 e0.34 e0.32	e0.87 e0.59 e0.43 e0.36 0.26	0.44 0.30 0.29 e0.60 e0.43	0.76 0.74 0.76 0.80 1.0	0.88 0.80 0.78 28 1.7	0.85 2.1 14 1.5 0.89	12 34 34 56 3.7	0.62 0.68 0.48 2.4	0.19 0.21 0.24 0.20 1.4	36 0.97 0.64 0.27 0.23	0.16 0.14 0.10 0.10 0.13	
11 12 13 14 15		e0.28 e0.25 e0.22 e0.23 e0.23	0.60 11 1.8 22 3.9	e0.31 e0.27 e0.24 e0.22 0.20	0.76 e0.70 e0.63 e0.76 e0.68	1.3 1.4 1.1 1.0	0.85 3.9 0.90 1.4 0.76	2.2 18 34 2.9 1.8		0.45 0.14 0.15 0.13 0.12	1.8 0.92 1.4 1.1 0.35	0.14 0.10 0.16 0.28 0.26	
16 17 18 19 20	3.5 0.77 0.60 0.60 0.60	e0.20 e0.19 e0.19 e0.45 e0.34	44 29 3.4 4.0 1.4	e0.18 e0.17 0.16 1.2 0.34	e0.63 e0.60 0.76 11 1.3	2.2 1.3 1.0 12 2.7	0.69 0.76 0.59 7.3 5.6	6.8 23 3.4 1.6 1.4	0.40 0.31 0.26 0.28 0.29	0.14 0.13 4.8 0.22 0.16	0.25 0.25 18 0.75 0.45	0.11 9.3 0.27 4.7 6.6	
21 22 23 24 25	0.60 0.53 3.6 6.8 0.56	e0.19 e0.19 e0.45 e23 e1.1	1.1 1.4 0.95 0.90 0.94	0.42 0.27 2.4 1.4 0.29	0.76 0.73 0.68 0.68 1.3	1.5 1.1 1.0 2.5	18 1.4 0.88 25 1.9	1.3 1.1 1.1 1.1 0.99	0.26 0.24 0.20 0.24 0.58	0.16 0.15 0.37 0.14 0.17	0.29 0.32 0.50 0.25 0.20	0.30 0.17 0.14 0.34 0.15	
26 27 28 29 30 31	0.39 0.40 0.38 0.40 0.36 0.34	e0.48 e0.86 e7.5 e9.3 e17	0.86 0.62 0.60 0.54 0.69 0.48	e0.23 e0.20 0.29 1.4 28 56	0.94 0.76 0.78 	7.6 2.0 1.5 1.4 1.0	1.5 45 7.4 1.7 1.5	0.94 32 20 2.7 1.5	0.26 0.26 0.31 0.22 0.20	0.13 0.13 0.16 0.15 0.13	0.21 0.19 0.17 0.16 0.15 0.16	0.15 0.14 0.15 0.13 0.13	
MEAN MAX MIN	3.42 33 0.08	2.27 23 0.19	4.41 44 0.26	3.16 56 0.16	1.34 11 0.60	4.14 28 0.76		9.82 56 0.87	8.95 139 0.20	0.38 4.8 0.12	2.16 36 0.14	0.84 9.3 0.10	
		MONTHLY ME											
MEAN MAX (WY) MIN (WY)	1.89 3.42 2002 1.10 2001	1.68 2.27 2002 0.32 2000	1.80 4.41 2002 0.43 1999	2.74 4.97 1999 1.04 2000	3.84 8.01 1999 1.33 2002	4.10 11.4 1998 0.85 2000	3.51 5.68 1998 1.05 2000	4.94 9.82 2002 1.29 1999	6.98 13.2 1998 2.56 1999	4.26 10.1 1998 0.38 2002	2.82 7.16 1998 0.54 1999	1.31 2.60 2001 0.52 1999	
SUMMAR	Y STATIS	rics	FC	OR 2001 CA	LENDAR YE	AR	FOR 2002	WATER YE	CAR	WATER Y	EARS 1997 -	- 2002	
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				73 0.06 Aug 0.07  6.8 0.57 0.13	Jun 21,Sep 2 Sep	20 1 1,6 0. 1 0. 24 10.	68	Jun Oct 2 Sep Jun Jun 3,Sep 16,	11 2,3 6 11 11	3.41 5.46 2.15 209 0.06 Aug 0.07 3260 <sup>a</sup> 10.80 0.03 6.2 0.65 0.18	Jun 24 21,Sep 2,6 Sep 5 Jun 1 Jun 1: Aug 25	1998 2001 4 2000 5 2001 L 2001 1 1998 L 1998 L 2001	

e Estimated

From rating extended above 156  $ft^3/s$ .

#### 07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO

LOCATION.--Lat 38°31'36", long 90°17'58", St. Louis County, Hydrologic Unit 07140101, on center downstream pier of Green Park Road bridge, 1.10 mi south of Interstate 55, 0.24 mi west of Highway 267 (Lemay Ferry Road), and 3.48 mi upstream of River Des Peres Drainage Channel.

DRAINAGE AREA. -- 18.1 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 422.15 ft above National Geodetic Vertical Datum of 1929. REMARKS.--Water-discharge records poor.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUL	AUG	SEP	
1 2 3 4 5	0.73 0.66 0.62 0.58	1.3 16 2.4 1.0 0.85	5.7 3.5 2.6 2.3 2.0	e1.4 e1.3 e1.3 e1.5 e2.1	35 13 9.6 7.5 7.0	2.7 88 e14 5.5 5.1	6.0 e7.2 e5.4 e4.4 e4.1	7.9 7.1 5.7 5.3 4.9	4.9 4.4 4.1 3.7 8.4	e1.7 e1.6 6.2 6.2 2.0	e1.4 e1.3 e1.3 e1.9 e1.4	0.96 e1.5 e5.2 3.4 1.9	
6 7 8 9 10	4.2 1.2 0.94 0.75	0.85 0.79 0.77 0.92 0.86	3.8 2.2 1.9 1.8 1.4	e3.2 e2.2 e1.7 e2.5 e7.0	7.0 6.1 5.8 5.5 5.3	5.6 4.2 4.1 166 11	e3.9 e6.0 82 13 6.2	69 214 234 325 20	e4.5 3.5 3.5 6.8 63	1.7 1.7 1.5 1.5	175 6.1 3.4 2.6 2.3	1.2 1.0 e1.6 e1.7 e1.0	
11 12 13 14 15				e4.0 e3.6 e3.2 e2.8 e2.5							84 6.4 9.4 8.0 4.2	0.85 0.85 0.85 1.00 1.8	
16 17 18 19 20				e2.2 e2.0 e1.8 8.3 5.6					6.5 5.4 4.1 3.5 3.0	e12 e5.9 e15 e3.2 1.5	2.7 2.1 79 7.0 12	e30 e8.0	
21 22 23 24 25	e1.1 1.6 5.1 61 8.2	0.82 0.70 1.8 242 5.2	e6.1 e9.2 e6.5 e3.2 e2.7	3.5 4.3 8.3 20 3.4	5.1 3.5 3.2 3.0 4.3	e9.6 e8.2 7.0 8.3	96 11 6.5 96 14	e8.2 7.0 6.7 12 8.3	2.3 28	1.2 e5.0 e10 e3.8 e2.1	3.3 2.1 2.3 2.4 2.2	e5.8 2.0 1.6 1.6	
26 27 28 29 30 31	2.2 1.7 1.9 1.4 1.6	2.5 3.6 38 43 115	e2.4 e2.5 e2.2 e1.9 e1.8 e1.6	2.9 2.7 2.5 3.4 159 329	8.0 3.8 2.9 	39 e12 e9.0 11 8.5 e7.0	6.5 192 102 13 9.2	5.5 7.5 95 14 6.8 5.4	4.5 2.7 e2.5 e2.2 e1.8	e3.4 e2.5 e2.2 e2.0 e4.4 e1.9	1.8 1.6 1.5 1.3 1.1	1.2 1.0 1.0 1.0 0.96	
MEAN MAX MIN IN.			34.1 293 1.4	19.3 329 1.3 1.23		26.5 166 2.7		53.1 325 4.9	33.5 433 1.8		14.0 175 1.1 0.89		
STATIS	TICS OF M			OR WATER Y	EARS 199	6 - 2002,	BY WATER						
MEAN MAX (WY) MIN (WY)	10.8 16.9 2002 7.44 1998	17.0 45.0 1997 2.04 2000	11.6 34.1 2002 4.02 2001	22.8 51.4 1999 5.66 2000	26.8 49.5 1999 8.53 2002	25.7 69.8 1998 7.19 2000	19.0 32.0 1998 6.43 2000	25.5 53.1 2002 8.31 1999	36.2 65.6 1998 15.4 2001	21.1 44.3 1998 3.57 2002	14.1 27.3 2000 1.63 2001	10.4 27.9 1996 2.56 1999	
SUMMAR	Y STATIST	CICS	FO	R 2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 1996	5 - 2002	
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			15.8 373 0.14 0.18   11.83 34 2.7 0.59	Jul : Aug : Aug :	24 22 16	21.6 433 0.58 0.69 2680 <sup>a</sup> 14.00 0.55 16.23 62 4.2	Jun Oct Nov Jun Jun Oct 4	12 4 12 12 12 12	19.8 27.4 12.2 1110 0.14 0.18 4020 <sup>8</sup> 15.6 <sup>7</sup> 0.14 14.87 39 4.1		1998 2001 24 2000 22 2001 16 2001 24 2000 24 2000 20 2001		

e Estimated  $^{\rm a}$  From rating extended above 1,150  ${\rm ft}^3/{\rm s}$ .

# 07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLITD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 15	2025	ENVIRONM	IENTAL	115	10.1	95	7.5	320	11.7	91	29.0	4.50	68
DEC 10	1515	ENVIRONM	IENTAL	1.5	12.6	104	7.6	1110	6.3	350	109	19.9	229
FEB 04 MAR	1415	ENVIRONM	IENTAL	7.4	11.8	92	7.5	1300	4.8	350	107	20.0	220
09	0316	ENVIRONM	IENTAL	297	9.1	90	7.7	1890	13.6	190	56.0	11.0	97
MAY 28 AUG	1420	ENVIRONM	IENTAL	7.4	4.8	56	7.7	515	21.5	180	55.0	9.20	117
05	1140	ENVIRONM	IENTAL	1.1	3.3	43	7.3	906	27.9	250	75.0	15.0	195
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 15 DEC	68	83	0		118	<.20	.02	.520	.01	.160	. 29	4.5	21
10 FEB	230	281	0	141	<1	E.20	<.01	.730	<.01	.070	E.07	11	15
04 MAR	222	270	0	200	9	.50	<.01	1.80	<.01	.080	.11	12	13
09 MAY	94	115	0		982	2.4	.07	.390	.02	.110	.68	4.2	<5
28 AUG	118	144	0		28	.70	.15	1.10	.05	.100	.16	5.1	19
05	195	238	0		12	.60	.10	.330	.01	.050	.08	18	13
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 15	11000	38000	34000	252	1	<1	<1.0	1.2	2.9	285	2	72	<.1
DEC 10	K92	210	K20	14	1	<1	1.0	1.0	1.7	41	<1	84	<.1
FEB 04	K5	K30	K17	12	1	<1	<1.0	<1.0	1.6	23	<1	108	<.1
MAR 09	K1800	7800	5800	671	3	<1	<1.0	3.6	2.8	463	1	148	<.1
MAY 28	11000	11600	13400	181	1	<1	<1.0	1.1	2.8	153	<1	104	<.1
AUG 05	K67	240	K128	<3	2	<1	<1.0	<1.0	1.4	3	<1	286	<.1

307 LOWER MISSISSIPPI RIVER BASIN

# 07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 15	1.5	<1	<1.0	32	<7	М	<2	<3	<3.0	<3	<20	<3	<2
DEC 10	1.8	<1	<1.0	45									
FEB 04	1.6	2	<1.0	6									
MAR 09	2.9	1	<1.0	103	<7	М	<2	<3	<.7	<3	<3	<3	<2
MAY 28	1.8	<1	<1.0	47									
AUG 05	3.2	<1	<1.0	<2									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 15	<2	<2	<3	<3	<3	<2	<2	<3	М	М	<.01	М	<2
DEC 10													
FEB 04													
MAR 09	<2	<2	<1	<5	<3	<2	<2	<3	М	М	<.01	М	<2
MAY 28													
AUG 05													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZO- [A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 15	DINE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	[A]- ANTHRA- CENE WAT UNF (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L)	CHLORO- ETHOXY) METHANE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L)	PHENO- THION WATER UNFLTRD (µg/L)	DANE, TECH- NICAL TOTAL (µg/L)	PYRIFOS TOTAL RECOVER (µg/L)
OCT 15 DEC 10	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 15 DEC 10 FEB 04	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 15 DEC 10 FEB 04 MAR 09	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 15 DEC 10 FEB 04 MAR 09 MAY 28	DINE TOTAL (µg/L) (39120) <40	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230) E1	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273) <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 15 DEC 10 FEB 04 MAR 09	DINE TOTAL (µg/L) (39120) <40	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273) <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 15 DEC 10 FEB 04 MAR 09 MAY 28	DINE TOTAL (µg/L) (39120) <40	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M 3	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273) <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 15 DEC 10 FEB 04 MAR 09 MAY 28 AUG 05	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  M  E2 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E1 4  DEF TOTAL (µg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M  E1 DI- AZINON, TOTAL (µg/L) (39570)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M E1 ELDRIN TOTAL (µg/L) (39380)	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M 3  3   DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2  <2    DI-N-BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2 DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLTRD REC (µg/L) (39390)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 15 DEC 10 FEB 04 MAR 09 MAY 28 AUG 05  DATE	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  M  E2 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L)	FLUOR- AN- THENNE TOTAL (µg/L) (34230)  E1 4 4 DEF TOTAL (µg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M E1 AZINON, TOTAL (µg/L)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M E1 DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M 3 DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <1 METHYL PHTHAL-ATE TOTAL (µg/L)	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 S2 BUTYL PHTHAL ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)	ETHYL HEXYL) PHTHAL ATE TOTAL (µg/L) (39100)  E1  <6  DISUL- FOTON UNFILT RECOVER (µg/L)	PHENO-THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01 <.01   ETHION, TOTAL (µg/L) (39398)   <.01
OCT 15 DEC 10 FEB 04 MAR 09 MAY 28 AUG 05  DATE  OCT 15 DEC 10 FEB	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  M	A- PYRENE TOTAL (µg/L) (34247)  M  E2 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E1 4 DEF TOTAL (µg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M E1 AZINON, TOTAL (µg/L) (39570)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M E1 DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M 3 DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3  METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLIRD RECOVER (µg/L) (34273)  <2 <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <6 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLTRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 15 DEC 10 FEB 04 MAR 09 MAY 28 AUG 05  DATE  OCT 15 DEC 10 FEB 04 MAR	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  M	A- PYRENE TOTAL (μg/L) (34247)  M E2 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (μg/L) (34230)  E1 4  DEF TOTAL (μg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  E1 AZINON, TOTAL (μg/L) (39570)  .02	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M E1 ELDRIN TOTAL (µg/L) (39380)  <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M 3 3 DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL-ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (L(g/L) (34273)  <2 <2 <2 UI-N-BUTYL PHTHAL-ATE TOTAL (L(g/L) (39110)  M	CHLORO-ISO-PROPYL) PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01  ETHION, TOTAL (µg/L) (39398)  <.01
OCT 15 DEC 10 FEB 04 MAR 09 AUG 05  DATE  OCT 15 DEC 10 FEB 04 MAR 09 MAY	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)  M 3	A- PYRENE TOTAL (µg/L) (34247)  M  E2 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  E1 4  DEF TOTAL (µg/L) (39040)  <.02 <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M E1 AZINON, TOTAL (µg/L) (39570)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M E1  DI- ELDRIN TOTAL (µg/L) (39380)  <.006008	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M 3 DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M <2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M <2	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 SIDI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)  M <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <6 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  < < < < < < < < <-	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLTRD REC (µg/L) (39390)  <.01 <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 15 DEC 10 FEB 04 MAR 09 MAY 28 AUG 05  DATE  OCT 15 DEC 10 FEB 04 MAR 09	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  M	A- PYRENE TOTAL (μg/L) (34247)  M E2 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (μg/L) (34230)  E1 4  DEF TOTAL (μg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  E1 AZINON, TOTAL (μg/L) (39570)  .02	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M E1 ELDRIN TOTAL (µg/L) (39380)  <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M 3 3 DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL-ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (L(g/L) (34273)  <2 <2 <2 UI-N-BUTYL PHTHAL-ATE TOTAL (L(g/L) (39110)  M	CHLORO-ISO-PROPYL) PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2 DI-N-OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E1 <	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01  ETHION, TOTAL (µg/L) (39398)  <.01

### LOWER MISSISSIPPI RIVER BASIN

## 07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO--Continued (Metropolitan Sewer District)

DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (μg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (μg/L) (39755)
OCT 15	E2	М	<.01	<.009	<.01	<2	E1	М	<.006	<.10	<.020	<.01	<.006
DEC 10													
FEB 04													
MAR 09	6	М	<.01	<.009	<.01	<2	3	М	<.006	<.10	<.015	<.02	<.006
MAY 28													
AUG 05													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 15 DEC	М	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	E1	<3.0
10 FEB													
04 MAR													
09 MAY	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	М	4	<3.0
28 AUG													
05													
	DATE	PHOR TOT ( µg ( 390	AL TOT	'AL TOT. (μg	X- CHLO NE, WAT AL RE /L) (µg	4- 1,3- RI- CHLO DRO- WAT UNF UNFI CC RE	·DI- 1,4- DRO- CHLO TER WAT TRD UNFI C RE	-DI- O-D DRO- CHLC PER WAT LTRD UNFL EC RE 1/L) (µg	OI – HEX ORO – CHLO TER WAT TRD UNFL CC RECO /L) (µg.	A- HEX RO- CHLO ER BUT TRD ADIE VER TOT /L) (µg	ORO- '- NAPE 'NE ALE 'AL TOI /L) (µg	NE AL L)	
	OCT 15	<.	06 E1	. <1	<2	2 <2	2 <2	2 <2	<2	<3	. M	I	
	DEC 10											_	
	FEB 04	-										_	
	MAR 09	<.	02 4	<1	<2	2 <2	2 <2	2 <2	<2	<1	. M	I	
	MAY 28	-										-	
	AUG 05	-										-	

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### LOWER MISSISSIPPI RIVER BASIN

## 07010208 MARTIGNEY CREEK NEAR ARNOLD, MO

LOCATION.--Lat 38°29'26", long 90°17'36", St. Louis County, Hydrologic Unit 07140101, on left downstream abutment of Sunrise Height Drive bridge, 0.1 mi south of Interstate 255, 0.5 mi east of Highway 231 (Telegraph Road), and 1.04 mi upstream of Mississippi River.

DRAINAGE AREA. -- 2.64 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage unknown.

REMARKS. -- Records poor.

, icco	ras poor.	DISCHAF	RGE, CUBI	IC FEET PE		WATER Y	EAR OCTOBE ALUES	R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.32 0.32 0.33 0.36 6.8	e0.47 e1.9 0.52 0.53 0.51	0.83 0.56 0.51 0.49 0.50		eı.z	e0.73 e17 e2.9 1.4 1.3	0.81 0.89 0.78 0.81 0.83	0.77 0.69 0.64 0.62 0.61	0.62 0.72 0.84 1.6 2.0	0.31 0.31 0.31 0.32 0.31	0.25 0.97 0.24 0.26 5.5	0.55 0.51 0.52 0.52 0.45
6 7 8 9 10	0.48 0.38 0.39 0.43 2.3	0.53 0.56 0.56 0.54 0.52	0.59 0.54 0.56 0.56 0.64	0.54 0.53 0.55 e0.51 e0.53	e0.86 e0.78 e0.67 e0.65 e0.86	1.2 1.1 1.0 34 2.3	0.76 1.4 15 2.0 0.72	11 31 38 37 2.1	0.95 1.00 0.75 0.59 8.1	0.30 0.29 0.30 0.33 0.41	12 0.30 0.24 0.24 0.24	0.45 2.4 0.44 0.50 0.51
11 12 13 14 15							0.65 0.64 0.63 1.3 0.61				1.4 1.9 1.2 0.78	0.50 0.43 0.40 2.8 0.39
16 17 18 19 20	2.2 0.46 0.43 e0.46 e0.41	0.48 0.49 0.50 0.53 0.52	56 36 4.1 2.6 2.1	e0.43 e0.42 e0.57 e1.1 e0.74	e0.54 e0.53 e0.57 e10 e2.2	3.8 1.7 1.2 14 3.4	0.59 0.66 0.55 5.9 3.0	e6.9 e27 e5.2 1.8	0.47 0.45 0.44 0.44	0.26 0.24 8.5 0.22 0.21	0.65 0.56 7.9 5.4 1.2	0.35 7.8 0.57 12 7.4
21 22 23 24 25				e0.85 e0.73 e1.6 e2.1 e0.91					0.42 0.42 0.42 0.42 4.6	0.21 8.9 0.79 0.23 0.23	0.50 0.48 0.59 0.48 0.51	0.48 0.42 0.59 0.36 0.37
27	e0.48 e0.43 e0.39 e0.40 e0.40 e0.43	0.49 0.46 6.5 21 20	0.76 0.66 0.62 0.58 0.54	e0.80 e0.69 e0.66 e1.1 e37 e81	e1.0 e0.86 e0.79 	5.5 2.3 1.6 2.6 1.2 0.94	0.58 40 11 1.3 0.93	0.74 4.2 4.6 0.85 0.61 0.57	0.89 0.37 0.34 0.32 0.32	0.23 0.21 0.22 0.22 0.22 0.23	0.54 0.57 0.56 0.53 0.55 0.53	0.39 0.43 0.39 0.41 0.43
MEAN MAX MIN	2.28 22 0.32	3.24 35 0.46	5.45 56 0.49	4.46 81 0.42	1.49 10 0.53	5.16 34 0.73	3.55 40 0.55	7.46 38 0.57	2.59 33 0.32	0.83 8.9 0.21	2.23 22 0.24	1.46 12 0.35
STATIS	TICS OF M	ONTHLY MEA	AN DATA I	FOR WATER	YEARS 199	97 - 2002	, BY WATER	YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	1.61 2.28 2002 1.21 1998	2.15 3.25 2002 0.74 2000	1.97 5.45 2002 0.38 1999	2.79 4.53 1999 1.25 2001	3.38 5.65 1999 1.49 2002	4.02 8.47 1998 1.69 2000	3.20 5.54 1998 1.30 2000	4.90 7.46 2002 1.44 1999	4.78 9.74 2000 2.10 1999	2.86 6.53 1998 0.71 1997	2.33 4.25 2000 0.96 2001	1.53 3.14 2001 0.49 1999
SUMMAR	Y STATIST	ICS	FC	OR 2001 CA	LENDAR YE	EAR	FOR 2002	WATER YE	AR	WATER YE	ARS 1997	- 2002
LOWEST HIGHES' LOWEST ANNUAL MAXIMUI MAXIMUI INSTAN' 10 PERO 50 PERO	I ANNUAL M ANNUAL M I DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE OW FLOW EDS		3.02 58 0.32 0.33   6.2 0.66 0.43	Jul Oct 1 Sep	24 -,2 27	3.37 81 0.21 J 0.22 Unknown 9.48 0.18 J 8.0 0.64 0.33	Jan Tul 20,21, Jul Apr Apr Tul 19-21,	31 27 24 27 27 27	3.04 3.97 2.19 126 0.17 0.20 1180 <sup>a</sup> 12.79 0.13 6.0 0.70 0.35	Jun : Sep : Dec : Jun : Jun : Oct	1998 1999 24 2000 23 1999 23 1998 24 2000 24 2000 1 1999

e Estimated  $^{\rm a}$  From rating extended above 419  ${\rm ft}^3/{\rm s}$ .

# 07010500 MARAMEC SPRING NEAR ST. JAMES, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $37^{\circ}57^{\circ}20$ ", long  $91^{\circ}31^{\circ}57$ ", in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.1, T.37 N., R.6 W., Phelps County, Hydrologic Unit 07140102, in Maramec Spring Park, approximately 5 mi east of St. James on Highway 8.

PERIOD OF RECORD.--November 1993 to August 1997, November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 02	0945	ENVIRONM	ENTAL	72	7.5	75	7.5	361	14.0	190	38.6	22.2	.77
JAN 28	1330	ENVIRONM	ENTAL	77	13.2	133	7.4	308	13.9				
MAR 21	0925	ENVIRONM	ENTAL	365	8.0	78	7.0	233	12.9				
MAY 21	1600	ENVIRONM	ENTAL	411	8.2	79	7.0	125	13.3	60	12.9	6.86	1.04
JUL 29	1015	ENVIRONM	ENTAL	135	8.8	88	7.8	305	14.0				
SEP 05	1245	ENVIRONM	ENTAL	103	8.6	87	7.2	291	14.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 02	5.15	170	172	210	0	7.95	E.1	5.2	<10	194	<.04	E.08	.68
JAN 28		161	163	199	0				<10		.04	E.06	.81
MAR 21		129	130	159	0				<10		<.04	<.10	.60
MAY 21	2.03	51	52	63	0	2.59	E.1	5.5	<10	88	<.04	.14	.46
JUL 29		146	147	179	0				<10		<.04	E.07	.80
SEP 05		136	139	169	0				<10		<.04	E.07	.83
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 02	<.008	E.04	.02	E.04	К3	К8	K1	9	16	E.1	E.02	<.1	<6
JAN 28	<.008	<.06	.04	<.06	K1	K4	K3						
MAR 21	E.006	E.03	<.02	<.06	K76	20	27						
MAY 21	E.004	<.06	E.01	<.06	K17	K75	K370	188	328	E.1	<.04	<.1	E4
JUL 29	<.008	<.06	E.01	<.06	K17	K13	31						
SEP 05	<.008	<.06	.02	E.03	21	K16	51						

# 07010500 MARAMEC SPRING NEAR ST. JAMES, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
02	<10	<.08	<1	<2.0	<.01	<.3		1
JAN								
28								
MAR								
21								
MAY								_
21	65	.27	<1	4.3	E.01	<.3		3
JUL								
29								
SEP								
05								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

### 07013000 MERAMEC RIVER NEAR STEELVILLE, MO

LOCATION.--Lat  $37^{\circ}59^{\circ}58^{\circ}$ , long  $91^{\circ}21^{\circ}39^{\circ}$ , in NE  $\frac{1}{4}$  sec.21, T.38 N., R.4 W., Crawford County, Hydrologic Unit 07140102, on left bank 20 ft downstream from railroad bridge, 400 ft upstream from highway bridge, 0.8 mi upstream from Whittenburg Creek, 1.5 mi north of Steelville, and at mile 146.4.

DRAINAGE AREA. -- 781 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1922 to current year. Prior to January 1923 monthly discharges only, published in WSP 1311. Gage-height records for 1916-33 at site 1.0 mi upstream in reports of the National Weather Service.

REVISED RECORDS. -- WSP 897: 1939. WSP 1007: Drainage Area.

GAGE.--Water-stage recorder. Datum of gage is 681.68 ft above National Geodetic Vertical Datum of 1929. Prior to May 24, 1934, and from July 20, 1966 to July 20, 1967, nonrecording gage, 400 ft downstream, same datum; May 24, 1934 to July 20, 1966, water-stage recorder at present site and datum; July 20, 1967 to Feb. 13, 1973, water-stage recorder at site 1,900 ft downstream and at datum 1.8 ft lower; Feb, 14, 1973 to current year, water-stage recorder at present site and datum.

REMARKS.--Records good. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 20, 1915, reached a stage of 26.5 ft. discharge, 60,000 ft<sup>3</sup>/s.

## 07014000 HUZZAH CREEK NEAR STEELVILLE, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°58'29", long 91°12'16", in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.25, T.38 N., R.3 W., Crawford County, Hydrologic Unit 07140102, at bridge on State Highway 8 at Huzzah Valley Resort, approximately 9 mi east of Steelville.

DRAINAGE AREA.--259 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1993 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 01	1230	ENVIRONM	ENTAL	57	10.6	108	7.9	404	14.9	210	42.0	26.3	.30
JAN 23	1410	ENVIRONM	ENTAL	70	11.7	109	7.6	378	10.6				
MAR 28	1130	ENVIRONM	ENTAL	469	11.0	98	8.0	251	9.1				
MAY 09	1450	ENVIRONM	ENTAL	3050	8.4	89	7.5	161	17.3	86	19.1	9.40	.79
JUL 30	0950	ENVIRONM	ENTAL	73	10.5	125	7.7	373	23.0	200	42.2	23.0	1.31
SEP 03	1020	ENVIRONM	ENTAL	77	8.8	104	7.7	357	22.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 01 JAN	4.41	199	201	245	0	5.02	<.1	14.8	58	206	<.04	E.06	.05
23 MAR		173	176	215	0				<10		<.04	E.06	. 29
28 MAY		105	105	128	0				<10		<.04	E.09	.28
09	3.01	78	80	98	0	1.83	<.1	8.5	49	115	<.04	.47	.08
30 SEP	4.22	182	183	223	0	4.18	E.1	10.7	<10	208	<.04	<.10	.25
03		170	171	208	0				<10		<.04	E.07	.23
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 01	<.008	<.06	<.02	<.06	К6	21	36	7	11	. 2	<.04	<.1	<6
JAN 23	E.005	<.06	<.02	<.06	<1	K1	<1						
MAR 28	<.008	<.06	<.02	<.06	K1	К5	K12						
MAY 09	.010	<.06	<.02	E.06	K120	1300	3300	175	621	. 4	.04	E.1	<6
JUL 30	<.008	<.06	<.02	<.06	K13	20	K150	1	15	.2	<.04	<.1	<6
SEP 03	<.008	<.06	<.02	<.06	76	К94	84						

# 07014000 HUZZAH CREEK NEAR STEELVILLE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
	(01040)	(0104)	(01031)	(01030)	(71300)	(01143)	(01000)	(01052)
NOV								
01	<10	E.05	<1	E2.3	<.01	<.3		3
JAN								
23								
MAR								
28								
MAY								
09	146	1.25	1	15.9	E.01	<.3		8
JUL								
30	<10	<.08	<1	4.6	<.01	<.3	<1	1
SEP								
0.3								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 07014200 COURTOIS CREEK AT BERRYMAN, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°55'05", long 91°06'04", in NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  Sec.13, T.37 N., R.2 W., Crawford County, Hydrologic Unit 07140102, at bridge on State Highway 8, approximately 13 mi east of Steelville.

DRAINAGE AREA.--173 mi<sup>2</sup>.

PERIOD OF RECORD. -- November 1993 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 01 01	1000 1000	ENVIRONM BLANK	ENTAL	29 	9.3	95 	7.9	443	14.9	240	47.6 .02	29.6 E.008	.65 <.10
JAN 23 23 MAR	1230 1235	ENVIRONM BLANK	ENTAL	47 	10.9	98 	7.9	393 	9.1				
28 28 MAY	1010 1011	ENVIRONM BLANK	ENTAL	328	11.1	97 	7.0	247	8.1				
09 09 JUL	1110 1230	ENVIRONM BLANK	ENTAL	3250	8.1	81	7.3	145	14.4	78 	17.0	8.58	.62 
30 30 SEP	1210 1211	ENVIRONM BLANK	ENTAL	31	6.9 	86 	7.8	399 	25.4				
03 03	1200 1215	BLANK ENVIRONM	ENTAL	32	7.8	 96	7.9	 391	24.6				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 01 01	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
NOV 01 01 JAN 23	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 01 01 JAN 23 MAR 28 28	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  200 178	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940) 5.60 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 27.5 <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 E.06	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .05 <.05
NOV 01 01 JAN 23 23 MAR 28	DIS- SOLVED (mg/L as Na) (00930) 3.39 <.09	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  200 178 80	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  201 181 80	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 245  221  97	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940) 5.60 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950) <.1 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 27.5 <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 E.06 <.10	GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)  .05 <.05 .13 <.05
NOV 01 01 JAN 23 23 MAR 28 MAY 09	DIS- SOLVED (mg/L as Na) (00930) 3.39 <.09	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  200 178 80 74	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  201 181 80 75	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  245 221 97 91	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940) 5.60 <.30   1.33	RIDE, DIS- SOLVED (mg/L as F) (00950) <.1 <.1   E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 27.5 <.1   7.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <73	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 264 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 E.06 <.10 E.07 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .05 <.05 .13 <.05 .10 <.05

# 07014200 COURTOIS CREEK AT BERRYMAN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV													
01	<.008	<.06	<.02	<.06	K5	21	23	6	11	. 2	<.04	<.1	<6
01 JAN	<.008	<.06	<.02	<.06				7	7	<.2	<.04	<.1	<6
23	<.008	<.06	<.02	<.06	K1	<1	K2						
23 MAR	<.008	<.06	<.02	<.06									
28	<.008	<.06	<.02	<.06	K1	К6	К6						
28	<.008	<.06	<.02	<.06									
MAY 09	E.007	<.06	<.02	.07	K150	590	3200	165	789	. 4	.05	E.1	E3
09	<.008	<.06	<.02	<.06				1	7	<.2	<.04	<.1	<6
JUL 30	<.008	<.06	<.02	<.06	K2	K18	34						
30	<.008	<.06	<.02	<.06									
SEP 03	<.008	<.06	<.02	<.06									
03	<.008	<.06	<.02	<.06	к7	21	44						
			IRON,	LEAD,	LEAD, TOTAL	MANGA- NESE,	MERCURY TOTAL	SELE- NIUM,	ZINC,	ZINC, TOTAL			
	DAʻ		DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	RECOV- ERABLE (µg/L as Pb) (01051)	DIS- SOLVED (µg/L as Mn) (01056)	RECOV- ERABLE (µg/L as Hg) (71900)	DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	RECOV- ERABLE (µg/L as Zn) (01092)			
	NOV		SOLVED (µg/L as Fe) (01046)	SOLVED (µg/L as Pb) (01049)	ERABLE (µg/L as Pb) (01051)	SOLVED (µg/L as Mn) (01056)	RECOV- ERABLE (µg/L as Hg) (71900)	SOLVED (µg/L as Se) (01145)	SOLVED (µg/L as Zn) (01090)	ERABLE (μg/L as Zn) (01092)			
	NOV 0	1 1	SOLVED (µg/L as Fe)	SOLVED (µg/L as Pb)	ERABLE (μg/L as Pb)	SOLVED (µg/L as Mn)	RECOV- ERABLE (µg/L as Hg)	SOLVED (µg/L as Se)	SOLVED (µg/L as Zn)	ERABLE (μg/L as Zn)			
	NOV 0. 0. JAN 2	1 1 3	SOLVED (µg/L as Fe) (01046) <10 <10	SOLVED (µg/L as Pb) (01049) <.08 <.08	ERABLE (µg/L as Pb) (01051)	SOLVED (µg/L as Mn) (01056)  E2.3 <2.0	RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01	SOLVED (µg/L as Se) (01145)	SOLVED (µg/L as Zn) (01090)	ERABLE (µg/L as Zn) (01092)			
	NOV 0. 0. JAN 2	1 1 3 3	SOLVED (µg/L as Fe) (01046) <10 <10	SOLVED (µg/L as Pb) (01049) <.08 <.08	ERABLE (µg/L as Pb) (01051) <1 <1	SOLVED (µg/L as Mn) (01056) E2.3 <2.0	RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01	SOLVED (µg/L as Se) (01145)	SOLVED (µg/L as Zn) (01090)	ERABLE (µg/L as Zn) (01092)			
	NOV 0 0 JAN 2 2 2 MAR 2.	1 1 3 3	SOLVED (µg/L as Fe) (01046) <10 <10	SOLVED (µg/L as Pb) (01049)  <.08 <.08	ERABLE (µg/L as Pb) (01051)  <1 <1	SOLVED (µg/L as Mm) (01056)  E2.3 <2.0	RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01	SOLVED (µg/L as Se) (01145) <.3 <.3	SOLVED (µg/L as Zn) (01090)  24	ERABLE (µg/L as Zn) (01092)			
	NOV 0 0 JAN 2 2 2 MAR 2.	1 1 3 3 8	SOLVED (µg/L as Fe) (01046) <10 <	SOLVED (µg/L as Pb) (01049)  <.08 <.08	ERABLE (µg/L as Pb) (01051)	SOLVED (µg/L as Mn) (01056)  E2.3 <2.0	RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01	SOLVED (µg/L as Se) (01145) <.3 <.3	SOLVED (µg/L as Zn) (01090)	ERABLE (µg/L as Zn) (01092)			
	NOV 0 0 JAN 2 2 2 MAR 2 2 2 MAY 0	1 1 3 3 8 8	SOLVED (µg/L as Fe) (01046)  <10 <10	SOLVED (µg/L as Pb) (01049)  <.08 <.08 3.21	ERABLE (µg/L as Pb) (01051)  <1	SOLVED (µg/L as Mn) (01056)  E2.3 <2.0  13.4	RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01   	SOLVED (µg/L as Se) (01145)  <.3 <.3 <.3	SOLVED (µg/L as Zn) (01090)  24 47	ERABLE (µg/L as Zn) (01092)  2 2 2			
	NOV 0 0 JAN 2 2 2 MAR 2 2 MAY 0	1 1 3 3 8 9	SOLVED (µg/L as Fe) (01046)  <10 <10	SOLVED (µg/L as Pb) (01049) < .08 < .08	ERABLE (µg/L as Pb) (01051)  <1	SOLVED (µg/L as Mn) (01056)  E2.3 <2.0	RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01	SOLVED (µg/L as Se) (01145)  <.3	SOLVED (µg/L as Zn) (01090)  24	ERABLE (µg/L as Zn) (01092)  2 2 2			
	NOV 0 0 JAN 2 2 2 2 2 2 MAY 0 0 0	1 1 3 3 8 8 9	SOLVED (µg/L as Fe) (01046)  <10 <10 146 <10	SOLVED (µg/L as Pb) (01049)  <.08 <.08 3.21 <.08	ERABLE (µg/L as Pb) (01051)  <1 <1	SOLVED (µg/L as Mn) (01056)  E2.3 <2.0  13.4 E1.0	RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01   .01 <.01	SOLVED (µg/L as Se) (01145)  <.3 <.3 <.3 <.3	SOLVED (µg/L as Zn) (01090)  24 47 65	ERABLE (µg/L as Zn) (01092)  2 2 32 2			
	NOV 0 0.0. JAN 2 2 2 MAR 2.2 MAY 0 0 JUL 3.3	1 1 3 3 8 8 9 9	SOLVED (µg/L as Fe) (01046)  <10	SOLVED (µg/L as Pb) (01049)  <.08 <.08 3.21 <.08	ERABLE (µg/L as Pb) (01051)  <1	SOLVED (µg/L as Mm) (01056)  E2.3 <2.0  13.4 E1.0	RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01   .01 <.01	SOLVED (µg/L as Se) (01145)  <.3 <.3 <.3 <.3 <.3 <.3	SOLVED (µg/L as Zn) (01090)  24 47 65	ERABLE (µg/L as Zn) (01092)  2 2 2			
	NOV 0 0 JAN 2 2 2 2 2 2 2 MAY 0 0 0 JUL 3 3 3 SEP 0	1 1 3 3 8 8 9 9	SOLVED (µg/L as Fe) (01046)  <10 <10 146 <10	SOLVED (µg/L as Pb) (01049)  <.08 <.08 3.21 <.08	ERABLE (µg/L as Pb) (01051)  <1 <1	SOLVED (µg/L as Mn) (01056)  E2.3 <2.0  13.4 E1.0	RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01   .01 <.01	SOLVED (µg/L as Se) (01145)  <.3 <.3 <.3 <.3	SOLVED (µg/L as Zn) (01090)  24 47 65	ERABLE (µg/L as Zn) (01092)  2 2 32 2			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.  $<--Numeric \ result$  is less than the value shown.

### 07014500 MERAMEC RIVER NEAR SULLIVAN, MO

LOCATION.--Lat  $38^\circ09^\circ30^\circ$ , long  $91^\circ06^\circ30^\circ$ , in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.35, T.40 N., R.2 W., Crawford County, Hydrologic Unit 07140102, on right bank at upstream side of Sappington Bridge, 3.8 mi downstream from Brazil Creek, 4.0 mi southeast of Sullivan, and at mile 117.0.

DRAINAGE AREA. -- 1,475 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1921 to September 1933, October 1943 to current year. Monthly discharge only for October 1943, published in WSP 1311.

REVISED RECORDS.--WSP 1007: 1922(M), 1924-30, 1933: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 581.82 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 21, 1952, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records fair. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1915 reached a stage of 33.5 ft, from information by local residents, discharge,  $90,000 \text{ ft}^3/\text{s}$ .

CORRECTIONS.--The peak stage for period of record is 32.34 ft, Dec. 4, 1982, superseding figures published in WDR MO-88-1 to WDR MO-00-1.

		DISCHARG	E, CUBIC	FEET PER		WATER Y MEAN V		ER 2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	276	1430	520	9440	e600	1700	1850	1400	568	407	446
2	189	280	1350	490	7130	e930	1510	1670	1290	558	399	428
3	189	274	1010	470	3600	e1940	1360	1480	1200	560	402	412
4	187	267	801	451	2690	e1590	1220	1310	1130	615	390	399
5	211	271	666	414	2150	1350	1090	1180	1110	651	377	385
6	232	272	579	409	1760	e1300	1000	1200	1070	601	373	373
7	221	264	518	405	1510	1250	932	1570	1020	550	367	363
8	238	258	479	395	1310	1200	980	7100	967	519	354	356
9	237	253	437	388	1150	1740	1370	22600	919	499	347	346
10	234	249	406	381	1030	3440	1820	19400	892	485	341	333
11	239	246	381	373	913	3030	1720	5900	952	536	374	326
12	254	243	384	365	821	2450	1540	4330	1990	576	376	321
13	284	242	449	354	740	2220	1400	15300	1380	601	418	317
14	290	241	581	347	672	2010	1380	26400	1140	557	1040	319
15	282	242	726	337	624	1780	1530	13900	1040	527	842	328
16	290	241	1160	328	578	1850	1590	4260	925	508	704	326
17	285	240	5240	319	539	2330	1480	13400	853	490	594	351
18	277	241	7780	315	506	2110	1420	31500	802	478	604	365
19	278	241	4140	325	502	2100	1370	21100	765	534	2230	385
20	266	239	2820	321	564	e6380	3580	5990	729	486	1860	440
21	256	237	2150	319	650	e5280	6610	4210	698	466	2290	481
22	248	238	1750	314	693	e4190	4900	3330	672	453	1630	514
23	252	239	1470	321	659	e3240	3520	2770	651	478	1130	454
24	290	401	1240	351	616	e3070	2840	2420	628	584	911	414
25	350	518	1070	446	580	e4310	2490	2190	670	592	774	390
26 27 28 29 30 31	509 425 364 326 304 289	733 596 525 523 757	936 832 752 690 617 560	547 579 539 508 537 2530	e538 e538 e538 	5190 3830 e3030 e2620 e2210 e1900	2170 2020 2600 2520 2120	2000 1820 2140 2180 1750 1550	718 627 616 620 605	527 483 452 431 419 412	680 614 560 521 490 467	375 365 351 341 334
MEAN MAX MIN IN.	274 509 187 0.21	328 757 237 0.25 VTHLY MEAN	1400 7780 381 1.09	474 2530 314 0.37	1537 9440 502 1.09	2596 6380 600 2.03	2059 6610 932 1.56	7348 31500 1180 5.75	936 1990 605 0.71	522 651 412 0.41	738 2290 341 0.58	378 514 317 0.29
MEAN	587	1041	1225	1218	1457	1936	2388	2037	1323	758	543	538
MAX	4307	5692	8307	6304	5264	5786	9435	7348	8742	6142	2030	5489
(WY)	1950	1986	1983	1950	1982	1945	1994	2002	1945	1951	1982	1993
MIN	156	249	232	216	281	295	347	292	263	205	199	146
(WY)	1957	1957	1956	1956	1954	1954	1954	1932	1932	1954	1964	1956
SUMMARY	STATISTIC	CS	FOR 2	001 CALEN	DAR YEAR		FOR 2002	WATER YEAR		FOR PI	ERIOD OF	RECORD
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM INSTANTA ANNUAL I 10 PERCI 50 PERCI	MEAN ANNUAL ME ANNUAL ME ANNUAL ME DAILY MEA DAILY MEA DEVEN-DAY PEAK FLOW PEAK STA ANEOUS LOW RUNOFF (IN EUNT EXCEEL ENT EXCEEL	AN AN MINIMUM SE THOW WCHES) OS		8340 174 180  6.37 1320 406 232	Feb 25 Sep 6,7 Sep 2		1556 31500 187 203 33800 21.78 184 14.33 2920 596 273	May 18 Oct 4 Oct 1 May 18 May 18 Oct 4		1252 3014 341 70600 131 133 77300 32.34 131 11.53 2410 603 271	Sep Sep Jun Dec	1985 1954 9 1945 20 1956 16 1956 9 1945 4 1982 20 1956

e Estimated

# 07014500 MERAMEC RIVER NEAR SULLIVAN, MO--Continued (Ambient Water-Quality Monitoring Network)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1963 to July 1975, July 1977 to June 1990, November 1992 to current year.

DATE	TIME	SAMPLI TYPE	E	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 23	0945	ENVIRONM	ENTAL	240	7.4	79	7.9	378	16.9				
NOV 01	1010	ENVIRONM	ENTAL	275	9.1	89	8.3	397	13.5	210	40.5	25.5	1.23
DEC 05 05	0920 0921	ENVIRONMI REPLICATI		673 	9.2	88	8.0	357 	12.3				
JAN 23	0915	ENVIRONM	ENTAL	312	12.0	99	7.9	349	6.0	180	36.2	22.1	.44
FEB 12	1145	ENVIRONM	ENTAL	821	11.3	94	8.1	277	6.9				
MAR 28	0945	ENVIRONM	ENTAL	3000	11.1	98	8.1	213	9.1				
APR 10 10	0950 0951	ENVIRONMI REPLICATI		1860 	10.2 10.3	100 100	8.2 8.2	281 281	13.3 13.2				
MAY 23	1000	ENVIRONM	ENTAL	23700	9.0	94	7.6	214	16.2	110	23.0	12.3	.65
JUN 20	1000	ENVIRONM	ENTAL	1130	10.0	123	8.0	306	25.3				
JUL 30	1420	ENVIRONM	ENTAL	1010	7.7	102	7.9	338	28.6	170	36.0	20.5	1.39
AUG 12 SEP	1400	ENVIRONM	ENTAL	941	8.7	111	8.0	340	26.4				
03	1145	ENVIRONM	ENTAL	1010	8.3	105	8.8	329	26.1				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLITD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
DATE  OCT 23	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 23 NOV 01	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23 NOV 01 DEC 05	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFILTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  176 185 174	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 177 185 175	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.09 E.09	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05
OCT 23 NOV 01 DEC 05 05 JAN	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 176 185 174	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  177 185	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 216 225 214	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.09 E.09 .14 .12	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05 .20 .20
OCT 23 NOV 01 DEC 05 05 JAN 23 FEB	DIS- SOLVED (mg/L as Na) (00930)  6.28   3.39	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 176 185 174 	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 177 185 175 	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  216 225 214 217	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  8.05  	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  11.4  10.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTTAL (mg/L as N) (00625)  E.09  E.09  .14 .12  E.09	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05 .20 .20 .21
OCT 23 NOV 01 DEC 05 JAN 23 FEB 12	DIS- SOLVED (mg/L as Na) (00930)  6.28   3.39	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  176 185 174 177 128	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 177 185 175  178	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 216 225 214  217	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  11.4  10.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.09 E.09 .14 .12 E.09 E.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05 .20 .20 .21 E.56
OCT 23 NOV 01 DEC 05 JAN 23 FEB 12 MAR 28	DIS- SOLVED (mg/L as Na) (00930)  6.28   3.39	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  176 185 174 177 128 107	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  177  185  175   178  128  107	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 216 225 214  217 156 131	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  8.05   11.6	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  11.4  10.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <16	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.09 E.09 .14 .12 E.09 E.10 .24	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05 .20 .20 .21 E.56 .29
OCT 23 NOV 01 DEC 05 U55 JAN 23 FEB 12 MAR 28	DIS- SOLVED (mg/L as Na) (00930)  6.28   3.39	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  176 185 174 177 128	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 177 185 175  178	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 216 225 214  217	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  8.05  	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  11.4  10.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.09 E.09 .14 .12 E.09 E.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05 .20 .20 .21 E.56
OCT 23 NOV 01 DEC 05 JAN 23 FEB 12 MAR 28 APR 10 10 MAY 23	DIS- SOLVED (mg/L as Na) (00930)  6.28   3.39 	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  176 185 174 177 128 107 135	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  177  185  175   178  128  107  135	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 216 225 214  217 156 131	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  8.05   11.6	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  11.4  10.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <20 <10 <20 <20 <20 <20 <20 <20 <20 <20 <20 <2	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.09 E.09 .14 .12 E.09 E.10 .24 .18	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05 .20 .20 .21 E.56 .29 .11
OCT 23 NOV 01 DEC 05 JAN 23 FEB 12 MAR 28 APR 10 10 MAY 23 JUN 20	DIS- SOLVED (mg/L as Na) (00930)  6.28   3.39  	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  176  185  174   177  128  107  135  134	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  177  185  175   178  128  107  135  133	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 216 225 214  217 156 131 164 162	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  8.05   11.6	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  11.4  10.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.09 E.09 .14 .12 E.09 E.10 .24 .18 .18	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05 .20 .20 .21 E.56 .29 .11 .11
OCT 23 NOV 01 DEC 05 JAN 23 FEB 12 MAR 28 APR 10 10 MAY 23 JUN	DIS- SOLVED (mg/L as Na) (00930) 6.28 3.39 2.67	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  176 185 174 177 128 107 135 134 97	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 177 185 175  178 128 107 135 133 98	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 216 225 214  217 156 131 164 162	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  8.05   11.6   2.79	RIDE, DIS- SOLVED (mg/L as F) (00950)  .1  <.1  <.1 	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  11.4  10.3   7.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <20 19 26	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.09 E.09 .14 .12 E.09 E.10 .24 .18 .18	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05 .20 .21 E.56 .29 .11 .11 .36
OCT 23 NOV 01 DEC 05 JAN 23 FEB 12 MAR 28 APR 10 10 MAY 23 JUN 20 JUN 30	DIS- SOLVED (mg/L as Na) (00930)  6.28 3.39 2.67	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  176 185 174 177 128 107 135 134 97 172	WATER UNFLITED 1T FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  177 185 175 178 128 107 135 133 98 172	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 216 225 214  217 156 131 164 162 120 210	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  8.05   11.6   2.79	RIDE, DIS- SOLVED (mg/L as F) (00950)  .1  <.1   E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  11.4  10.3  7.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)(00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.09 E.09 .14 .12 E.09 E.10 .24 .18 .18 .17	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 <.05 .20 .21 E.56 .29 .11 .11 .36 .14

# 07014500 MERAMEC RIVER NEAR SULLIVAN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 23	<.008	<.06	<.02	<.06	К3	K11	25						
NOV 01	<.008	<.06	<.02	<.06	K2	K7	K12	14	29	.2	<.04	<.1	<6
DEC 05 05	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	K7 	K20 	39 						
JAN 23	<.008	<.06	<.02	<.06	К3	К6	к4	17	23	E.2	<.04	<.1	<6
FEB 12 MAR	<.008	<.06	<.02	<.06	<1	K45	К5						
28 APR	E.005	<.06	E.01	E.04	22	87	47						
10 10	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	22 22	25 39	K13 K18						
MAY 23	E.005	<.06	<.02	E.03	K15	K37	80	84	265	<.2	<.04	<.1	<6
JUN 20 JUL	E.005	<.06	<.02	<.06	22	22	85						
30 AUG	<.008	<.06	<.02	<.06	K1	K13	K8	2	78	.3	<.04	<.1	<6
12 SEP	E.005	<.06	<.02	E.03	K70	130	46						
03	<.008	<.06	E.01	<.06	K11	K14	K14						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT	3											
	NOV		17	E.05	<1	7.4	<.01	<.3		2			
	DEC												
	0 JAN	5											
		3	21	.11	<1	10.0	<.01	E.2	9	3			
	1 MAR	2											
	2 APR	8											
	1	0											
		3	129	.27	1	12.2	<.01	E.3		3			
		0											
		0	<10	E.04	M	7.5	<.01	<.3	<1	2			
	SEP	2											
	0	3											

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 07015720 BOURBEUSE RIVER NEAR HIGH GATE, MO

LOCATION.--Lat  $38^{\circ}08^{\circ}49^{\circ}$ , long  $91^{\circ}34^{\circ}50^{\circ}$ , in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.4, T.39 N., R.6 W., Phelps County, Hydrologic Unit 07140103, on downstream side of right bridge pier on State Highway B, 1.8 mi downstream from Lanes Fork, 5.0 mi east of High Gate, and 11.0 mi north of St. James.

DRAINAGE AREA.--135 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1965 to current year. Occasional low-flow measurements 1963, 1964.

REVISED RECORDS. -- WDR MO-83-1: 1981.

GAGE.--Water-stage recorder. Datum of gage is 802.1 ft above National Geodetic Vertical Datum of 1929 (levels by Missouri State Highway and Transportation Commission). Datum of gage prior to Oct. 1, 1987 was 2 ft higher. Prior to Aug. 17, 1966, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated daily discharges and those below 5  ${\rm ft}^3/{\rm s}$ , which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD. -- Flood of June 1957 reached a stage of about 23 ft, from information by local resident.

		DISCHA	ARGE, CUB	IC FEET PER		WATER Y		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.22 0.22 0.21 0.19 0.57	4.2 5.5 5.5 5.2 4.7	172 62 35 26 21	e16 e16 e15 e14	1500 402 202 110 74	15 2330 1380 312 286	62 58 55 47 42	66 52 41 35 30	28 26 23 31 222	e3.2 e3.1 53 81 24	1.5 1.3 1.0 0.86 0.76	5.6 4.0 2.9 2.4 1.9
6 7 8 9 10	0.52 0.39 0.35 1.6 7.4	4.0 3.9 3.7 3.5 3.4	18 15 13 12	13 12 12 12 12 e11	59 50 42 37 34	367 189 136 376 232	39 37 80 129 86	50 1540 4260 4040 598	94 51 36 29 27	11 6.3 4.4 3.4 3.0	0.69 0.61 0.54 0.48 0.44	1.6 1.4 1.2 1.0 0.87
11 12 13 14 15	14 13 11 7.1 6.8	3.1 3.0 2.8 2.8 2.8	9.8 18 271 150 101	el1 el1 el0 el0 e9.8	31 29 27 26 24	152 163 133 110 471	65 54 48 44 40	223 1230 4300 617 217	27 55 47 36 27	4.4 148 45 15 7.7	0.39 0.37 0.40 5.0 5.8	0.80 0.70 0.62 0.58 0.54
16 17 18 19 20	7.9 8.4 8.2 5.7 4.5	2.7 2.7 2.6 2.6 2.6	1860 2860 648 235 109	e9.5 e9.5 e9.4 e9.2 e9.0	22 20 19 21 32	768 299 199 1480 1290	37 39 38 958 3730	442 6160 1400 385 176	22 18 15 13	5.2 3.9 88 79 17	3.5 3.0 1810 250 137	0.51 0.50 0.49 0.65 1.1
21 22 23 24 25	4.1 4.1 17 118 46	2.5 2.4 2.4 156 51	65 49 39 30 26	e8.9 e8.8 e9.0 17	30 25 23 21 19	373 183 132 106 1000	1760 442 196 122 86	113 83 66 66 65	7.3 6.1 e5.7 e5.2 e4.8	8.1 4.8 5.1 5.3 4.1	80 45 34 29 24	2.3 3.5 2.6 2.1 1.8
26 27 28 29 30 31	18 11 7.5 6.2 5.5 4.7	21 14 15 286 1010	23 20 19 e18 e17 e17	16 14 14 14 1120 4880	19 17 16 	487 299 175 126 95 75	59 637 459 156 91	54 46 42 40 36 32	e4.5 e4.3 e4.3 e3.6 e3.4	3.6 2.9 2.2 1.9 1.8 1.7	27 30 15 12 9.8 8.0	1.4 1.0 0.90 0.80 0.72
MEAN MAX MIN IN.	11.0 118 0.19 0.09	54.4 1010 2.4 0.45	225 2860 9.8 1.92	205 4880 8.8 1.75	105 1500 16 0.81	443 2330 15 3.79	323 3730 37 2.67	855 6160 30 7.30	29.6 222 3.4 0.24	20.9 148 1.7 0.18	81.8 1810 0.37 0.70	1.55 5.6 0.49 0.01
STATIS	STICS OF N 44.6	MONTHLY ME	EAN DATA 1 181	FOR WATER Y	EARS 1969	5 - 2002 234	, BY WATER 269	YEAR (WY	128	48.1	35.5	45.1
MEAN (WY) MIN (WY)	552 1987 0.34 1967	799 1986 0.94 1981	1213 1983 1.68 1990	150 549 1969 0.65 1977	178 634 1985 12.4 1981	747 1984 1.32 1981	1191 1994 1.57 1981	894 1995 3.88 1977	963 1985 0.95 1972	546 1998 0.25 1972	373 1982 0.19 1971	865 1993 0.14 1971
SUMMAI	RY STATIST	TICS	F	OR 2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER :	YEARS 1965	- 2002
HIGHES LOWES HIGHES LOWES ANNUAL MAXIM MAXIM INSTAL ANNUAL 10 PEL 50 PEL	L MEAN ST ANNUAL M ST DAILY M T DAILY M L SEVEN-DA JM PEAK ST JM PEAK ST VIANEOUS I L RUNOFF ( RCENT EXCE RCENT EXCE RCENT EXCE	MEAN MEAN EAN AY MINIMUN LOW FAGE LOW FLOW (INCHES) EEDS	4	106 4620 0.19 0.22 10.66 131 10 0.38	Apr Oct Sep 1		198 6160 0.19 0.33 10600 17.25 0.19 19.92 369 18	May Oct Oct May May Oct 3	4 1 17 17	13' 31' 15.' 2100' 0.0' 0.0' 4930' 23.6' 0.0' 13.8' 22' 1' 0.8'	Dec Dec Severa Severa Dec Dec Severa	1985 2000 3 1982 1 Years 1 Years 3 1982 3 1982 1 Years

e Estimated

## 07016400 BOURBEUSE RIVER ABOVE UNION, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $38^{\circ}25^{\circ}55^{\circ}$ , long  $91^{\circ}01^{\circ}11^{\circ}$ , in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec.34, T.43 N., R.1 W., Franklin County, Hydrologic Unit 07140103, at bridge on North Bend Drive, 0.5 mi southwest of Union, and 5.5 mi upstream from the Bourbeuse River near Union gaging station.

DRAINAGE AREA. -- 808 mi<sup>2</sup>, approximately.

PERIOD OF RECORD. -- November 1983 to October 1987, November 1993 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 15	1200	ENVIRONM	ENTAL	46	9.1	85	7.8	352	12.0	170	32.0	21.8	2.36
JAN 16	0900	ENVIRONM	ENTAL	109	12.7	96	7.9	298	3.0				
MAR 13	1130	ENVIRONM		709	10.9	96	7.6	203	8.5				
MAY 16	0920	ENVIRONM		1920	7.9	84	7.4	145	17.2	63	13.2	7.37	2.10
16 JUL	0921	REPLICAT								63	13.2	7.36	2.32
10 SEP	1040	ENVIRONM	ENTAL	103	2.4	32	7.8	269	29.4				
05 05	0900 0901	ENVIRONM REPLICAT		47 	5.7	71 	7.8	204	26.1				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV	0.00	120	1.40	1.50		10.4		06.7	1.0	100	0.4	0.0	25
15 JAN	8.08	139	142	173	0	10.4	.2	26.7	12	192	<.04	.23	<.05
16 MAR		104	106	129	0				<10		<.04	.16	.72
13 MAY		58	58	71	0				18		<.04	.39	.26
16 16	3.01 2.94	59 	58 	71 	0	3.13 2.92	E.1 E.1	9.1 8.8	53 60	122 98	E.03 <.04	.63 .68	. 27 . 28
JUL 10		115	116	142	0				26		<.04	.35	<.05
SEP 05		83	83	102	0				<10		<.04	.30	.11
05									<10		<.04	.31	.11
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 15	<.008	<.06	<.02	E.03	К3	К4	К3	26	69	.5	<.04	<.1	<6
JAN 16	<.008	<.06	<.02	<.06	K18	к7	K10						
MAR 13	.048	<.06	<.02	E.06	K40	K68	K30						
MAY 16 16	.012 E.005	.08 E.04	.04	.12	280 300	223 480	K406 540	 115	1180 1200	 .6	 <.04	<.1 E.1	 <6
JUL 10 SEP	<.008	<.06	<.02	E.03	25	K79	46						
05 05	<.008 <.008	E.03 <.06	E.01 E.01	E.05 E.04	K8 K8	K11 K9	K19 K13						

# 07016400 BOURBEUSE RIVER ABOVE UNION, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
15	102	.12	<1	33.8	<.01	<.3		4
JAN								
16								
MAR								
13								
MAY								
16			4		.01	E.2		9
16	125	.18	3	17.6	.01	<.3	2	9
JUL								
10								
SEP								
05								
05								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.  $<--Numeric \ result$  is less than the value shown.

### 07016500 BOURBEUSE RIVER AT UNION, MO

LOCATION.--Lat 38°26'39", long 90°59'41", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.26, T.43 N., R.1 W., Franklin County, Hydrologic Unit 07140103, on left bank at upstream side of the bridge on U.S. Highway 50, 800 ft upstream from Flat Creek, 0.5 mi east of Union, 7.0 mi upstream from Birch Creek, and at mile 13.4.

DRAINAGE AREA. -- 808 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1921 to current year. October 1916 to June 1921 gage heights only in reports of the National Weather Service.

REVISED RECORDS.--WSP 957: 1941. WSP 1147: Drainage area. WSP 1281: 1924.

GAGE.--Water-stage recorder. Datum of gage is 488.58 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1948, datum of all gages 3.00 ft higher. Prior to Oct. 21, 1933, nonrecording gage, at site 30 ft upstream; Oct. 21, 1933, to June 11, 1944, nonrecording gage, at present site.

REMARKS.--Records fair except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Aug. 22, 1915, reached a stage of 28.5 ft, present datum, from floodmarks, discharge, about  $50,000 \text{ ft}^3/\text{s}$ , determined from extension of rating curve for main channel based on measurements made since 1921 and study of overflow areas in vicinity of gaging station.

		DISCHAR	RGE, CUBIO	C FEET PER		WATER YE MEAN VA	EAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	98	2340	e198	9670	183	812	932	350	83	69	77
2	26	92	1640	e183	12800	480	651	708	292	78	64	70
3	25	81	777	e172	5840	3330	544	574	258	78	60	66
4	24	71	505	e163	1550	4380	477	478	229	76	57	63
5	46	66	375	146	1100	1670	424	405	312	71	55	56
6	39	62	297	143	844	1190	375	369	304	93	57	52
7	32	59	248	138	691	1150	340	508	274	95	55	49
8	29	57	214	133	589	1060	408	3600	485	74	50	46
9	30	56	187	129	516	884	474	10700	378	108	48	44
10	79	57	164	126	457	907	692	14500	372	108	46	42
11 12 13 14 15	64 76 76 100	55 51 49 48 46	147 160 185 355 891	123 120 118 114 111	403 360 324 294 267	1130 899 718 645 602	726 604 488 414 354	14200 2160 4660 9550 10900	388 726 2040 1280 713	133 122 127 75 63	50 43 84 82 58	40 39 37 36 36
16	125	43	1290	107	246	616	314	1960	491	59	53	34
17	98	42	5090	102	228	1410	282	1700	364	56	51	50
18	96	41	9220	100	212	1200	263	4630	282	98	70	54
19	90	41	6150	101	222	973	295	9360	229	102	62	89
20	90	40	1570	99	227	1640	2700	2990	193	100	1440	95
21	79	39	982	96	233	4230	7460	1330	166	509	873	72
22	71	39	724	94	269	2010	8040	949	145	424	559	70
23	70	38	584	95	278	1190	2970	749	128	314	382	56
24	102	205	497	101	265	870	1500	632	117	214	292	50
25	83	198	429	98	246	935	1020	551	105	162	229	49
26 27 28 29 30 31	72 133 276 193 146 117	380 431 353 329 607	370 320 285 256 232 216	97 101 106 114 317 3330	227 207 195 	1530 2190 1660 1290 1510 1140	771 695 1040 2130 1450	506 501 495 481 421 392	101 100 94 97 100	125 103 88 79 78 74	185 154 127 108 95 84	48 46 51 48 44
MEAN	84.6	126	1184	232	1384	1407	1290	3287	370	128	182	53.6
MAX	276	607	9220	3330	12800	4380	8040	14500	2040	509	1440	95
MIN	24	38	147	94	195	183	263	369	94	56	43	34
IN.	0.12	0.17	1.69	0.33	1.78	2.01	1.78	4.69	0.51	0.18	0.26	0.07
MEAN	298	530	651	642	799	1125	1294	1160	846	333	189	247
MAX	4575	3320	6107	3518	3214	4207	5303	4578	4583	3650	1927	4859
(WY)	1950	1986	1983	1950	1985	1984	1994	1995	1942	1993	1993	1993
MIN	15.0	28.0	35.4	30.7	41.1	42.0	94.9	66.6	33.7	23.9	21.0	19.2
(WY)	1957	1954	1954	1956	1963	1954	1956	1932	1936	1936	1936	1956
SUMMARY	Y STATISTI	CS	FOR :	2001 CALEN	NDAR YEAR	F	FOR 2002 WA	TER YEAR		WATER YE	ARS 1921	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANT ANNUAL 10 PERC	MEAN  F ANNUAL ME ANNUAL ME F DAILY MEA SEVEN-DAY M PEAK STA FANEOUS LO RUNOFF (I RUNOFF (I RUNOFF (Z RUNO	AN AN N MINIMUM GE W FLOW NCHES) DS		10600 22 24   7.72 891 117 32	Feb 26 Sep 7 Sep 2		810 14500 24 31 16300 18.36 23 13.61 1600 198 49	May 10 Oct 4 Oct 1 May 11 May 11 Oct 4		674 1771 106 63000 12 13 73300 33.80 11 11.34 1320 171 41	Oct 1 Oct Dec Dec	1993 1954 5 1982 10 1956 6 1956 5 1982 5 1982 10 1956

e Estimated

## 07017200 BIG RIVER AT IRONDALE, MO

LOCATION.--Lat  $37^{\circ}49^{\circ}48^{\circ}$ , long  $90^{\circ}41^{\circ}27^{\circ}$ , in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.15, T.36 N., R.3 E., Washington County, Hydrologic Unit 07140104, on right bank 50 ft upstream from bridge on State Highway U, 0.2 mi upstream from Mill Creek, and 0.8 mi west of Irondale.

DRAINAGE AREA.--175  $\min^2$ .

PERIOD OF RECORD. -- July 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 753.28 ft above National Geodetic Vertical Datum of 1929 (Missouri State Highway and Transportation Commission bench mark).

REMARKS.--Records fair except estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

		DISCHARO	GE, CUBIC	FEET PER		WATER Y	EAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.2 4.4 4.3 4.5 6.1	10 10 10 9.4 9.0	154 82 55 40 32	42 38 34 32 31	1750 571 359 251 191	62 99 217 150 134	166 152 133 118 109	211 181 155 134 118	146 117 97 82 83	20 19 20 19 19	13 13 13 12 12	20 20 18 17 16
6 7 8 9 10	7.2 7.0 6.9 7.0 7.5	9.0 10 e9.7 9.0 9.2	33 40 34 30 27	32 32 31 32 32	158 136 113 98 84	128 112 102 2980 850	101 98 702 478 281	145 268 16400 5300 1130	85 72 61 70 96	17 17 16 16 18	12 12 11 11	15 15 14 14 14
11 12 13 14 15	9.6 12 12 10 10	8.9 8.9 9.1 9.3 9.3	24 24 42 436 308	31 30 29 29 e30	72 65 56 51 47	523 669 e475 e301 e300	214 180 181 546 299	699 1840 7780 1260 719	87 152 103 75 59	61 24 21 19 18	13 14 50 73 30	13 13 12 135 85
16 17 18 19 20	11 10 9.6 9.2 9.3	9.3 9.3 9.3 9.2 9.2	2000 4380 843 435 274	28 26 26 30 29	44 40 38 94 503	e792 e708 e281 1960 1740	210 188 163 145 164	785 11900 1890 931 648	50 41 36 33 31	17 17 17 22 19	22 19 264 202 794	30 112 146 86 225
21 22 23 24 25	9.3 9.2 13 66 51	9.2 9.2 9.3 20	200 162 132 107 90	28 28 30 59 88	255 167 129 109 92	741 459 345 278 1110	555 287 206 228 352	479 378 314 270 239	30 28 26 24 29	17 16 16 16 16	178 95 63 50 43	158 77 49 38 32
26 27 28 29 30 31	24 15 12 12 10 9.7	16 16 17 31 323	77 68 64 57 49 44	75 66 59 54 56 1980	87 70 63 	640 415 318 263 222 192	217 882 659 339 248	209 189 238 240 194 172	29 26 24 22 21	15 15 14 13 13	36 31 28 25 23	28 26 24 22 21
MEAN MAX MIN IN.	12.7 66 4.2 0.08	21.9 323 8.9 0.14	334 4380 24 2.20	102 1980 26 0.67	203 1750 38 1.21	567 2980 62 3.73	287 882 98 1.83	1788 16400 118 11.8	61.2 152 21 0.39	18.7 61 13 0.12	70.8 794 11 0.47	49.8 225 12 0.32
STATIST							, BY WATER					
MEAN MAX (WY) MIN (WY)	58.3 339 1971 6.95 1981	223 1147 1994 10.5 1981	262 1027 1983 13.7 1977	204 734 1969 11.1 1981	254 695 1985 24.9 1977	327 867 1978 38.9 1981	358 1329 1994 39.7 2000	273 1788 2002 17.3 2000	117 872 1985 9.95 1980	51.2 262 1981 4.69 1980	55.5 393 1970 4.27 2000	62.0 669 1993 3.10 2000
SUMMARY	STATIST	ICS	FOR	2001 CALI	ENDAR YEAR	R	FOR 2002 V	WATER YE	AR	WATER YEA	ARS 1965	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	'ANNUAL M ANNUAL ME 'DAILY ME DAILY ME	EAN EAN AN MINIMUM AGE DW FLOW ENCHES) EDS EDS		4380 3.6 4.2  6.33 123 21 5.1	Dec 1 Sep : Sep :	8	296  16400 4.2 5.4 26300 21.32 3.7 22.94 511 47 9.9	May Oct Oct May May Oct		187 449 33.9 21300 1.2 1.5 49100 28.95 0.72 14.49 368 56 10	Sep 2 Sep 1 Nov 1 Nov 1	1985 2000 14 1993 21 2000 17 2000 14 1993 14 1993 23 2000

e Estimated

### 07018100 BIG RIVER NEAR RICHWOODS, MO

LOCATION.--Lat 38°09'34", long 90°42'22", in sec.33, T.40 N., R.3 E., Jefferson County, Hydrologic Unit 07140104, on left bank at downstream side of bridge on State Highway H, 1.8 mi east of Fletcher, 6.8 mi east of Richwoods, and at mile 53.7.

DRAINAGE AREA. -- 735 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year. Prior to May 1949 monthly discharge only, published in WSP 1311. Prior to 1984 published as Big River near De Soto (07018000).

GAGE.--Water-stage recorder. Datum of gage is 523.00 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1983 at site 5.5 mi downstream at datum 15.79 ft higher.

REMARKS.--Water-discharge records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of August 1915 reached a stage of about 29.4 ft (former datum), discharge, about 70,500  ${\rm ft}^3/{\rm s}$ , from rating curve extended above 37,000  ${\rm ft}^3/{\rm s}$ .

		DISCHAF	RGE, CUBI	C FEET PER		WATER YI MEAN V	EAR OCTOBEF ALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	52 52 51 50 61	109 106 104 101 97	1020 603 398 304 250	229 230 213 205 198	8230 3240 1560 1110 862	331 353 518 626 585	779 700 638 567 508	854 762 662 578 511	579 516 469 433 419	225 216 212 243 268	139 136 135 132 129	147 139 133 127 120
6 7 8 9	69 70 68 65 66	93 92 90 88 87	222 228 235 210 190	191 191 186 184 183	715 631 560 496 447	540 508 469 4040 5840	466 437 657 1700 1180	506 1090 7740 21300 10700	425 407 384 362 431	229 207 194 185 216	135 155 150 131 124	114 110 106 104 104
11 12 13 14 15	71 92 103 111 106	85 84 84 84	174 175 220 457 1260	183 177 171 166 161	402 366 337 312 294	2040 1660 1590 1260 1110	880 743 664 666 1000	2620 1840 14100 15000 2980	392 1240 810 626 477	352 302 316 299 226	128 133 2040 1750 607	104 102 102 106 142
16 17 18 19 20	112 110 101 90 85	84 85 85 84 83	2090 10200 8060 2140 1320	157 152 149 154 157	279 265 253 265 628	1840 1680 1370 2070 6400	823 693 611 566 682	1890 5020 17300 4870 2150	402 360 333 312 295	201 194 188 189	402 299 274 361 1750	135 237 356 422 469
21 22 23 24 25	84 81 84 140 462	82 84 90 128 180	949 760 644 549 467	155 155 158 263 289	973 721 565 481 429	3500 1880 1430 1200 2350	1260 1680 1120 861 779	1600 1300 1110 968 859	289 274 259 248 284	177 173 176 189 175	1550 691 448 355 292	435 440 328 254 212
26 27 28 29 30 31	395 245 182 148 129 118	179 157 148 169 803	405 364 332 303 275 246	288 300 278 260 288 2000	407 381 350 	2960 1840 1420 1210 1030 889	888 1070 2550 1540 1050	767 697 696 944 792 666	454 312 281 254 238	165 158 151 144 141 139	256 247 214 188 170 158	188 174 164 157 152
MEAN MAX MIN IN.	118 462 50 0.18	128 803 82 0.19	1131 10200 174 1.77	260 2000 149 0.41	913 8230 253 1.29	1759 6400 331 2.76	925 2550 437 1.40	3964 21300 506 6.22	419 1240 238 0.64	208 352 139 0.33	441 2040 124 0.69	196 469 102 0.30
MEAN MAX (WY) MIN (WY)	268 1641 1950 47.5 1957	650 4223 1986 87.9 1977	818 4332 1983 90.5 1956	712 3845 1950 84.0 1977	927 2935 1985 124 1954	1218 2851 1998 123 1954	1291 5642 1994 175 2000	1072 3964 2002 148 2001	563 3150 1985 110 1980	388 2492 1951 86.0 1980	261 1357 1950 69.9 1955	308 4022 1993 40.6 1956
SUMMARY	STATISTI	CS	FOR	2001 CALEN	IDAR YEAR	I	FOR 2002 W	ATER YEAR		WATER YEA	ARS 1949 -	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MINSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL M ANNUAL ME DAILY MEA SEVEN-DAY PEAK FLO PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS DS		325 10200 50 52  6.01 523 151 70	Dec 17 Oct 4 Sep 28		21300 50 58 23900 21.30 50 16.19 1690 295 99	May 9 Oct 4 Oct 1 May 9 May 9 Oct 2-5		705 1766 171 44400 22 26 59800 30.33 20 13.04 1320 281	Nov 15 Sep 19 Sep 13 Sep 23 Sep 23 Sep 19	9 1954 3 1954 3 1993 3 1993

# 07018100 BIG RIVER NEAR RICHWOODS, MO--Continued (Ambient Water-Quality Monitoring Network)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1963 to July 1975, November 1983 to June 1987, November 1992 to current year. August 1963 to July 1975 published as Big River near De Soto (07018000).

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 15	0900	ENVIRONM	ENTAL	84	8.2	74	8.0	544	10.2	290	55.3	36.5	1.93
JAN 16	1140	ENVIRONM	ENTAL	156	13.2	102	7.2	508	3.6				
MAR 13	0915	ENVIRONM	ENTAL	1430	11.3	96	8.0	318	7.1				
MAY 15 15	1340 1341	ENVIRONM BLANK	ENTAL	2760	8.4	88	7.9	288	17.1	140	30.8	15.7 .009	1.36 <.10
JUL 10	1240	ENVIRONM	ENTAL	173	6.5	87	8.0	514	29.4				
SEP 04	1550	ENVIRONM	ENTAL	125	6.6	86	7.9	498	27.4				
	SODIUM, DIS- SOLVED	ANC WATER UNFLTRD FET FIELD	ANC WATER UNFLTRD IT FIELD	ANC BICAR- BONATE IT FIELD	ANC CAR- BONATE IT FIELD	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SULFATE DIS- SOLVED	RESIDUE TOTAL AT 105 DEG. C, SUS-	SOLIDS, RESIDUE AT 180 DEG. C DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN,AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED
DATE	(mg/L as Na) (00930)	(mg/L as CaCO <sub>3</sub> ) (00410)	(mg/L as CaCO <sub>3</sub> ) (00419)	(mg/L as HCO <sub>3</sub> ) (00450)	(mg/L as CO <sub>3</sub> ) (00447)	(mg/L as Cl) (00940)	(mg/L as F) (00950)	(mg/L as SO <sub>4</sub> ) (00945)	PENDED (mg/L) (00530)	SOLVED (mg/L) (70300)	(mg/L as N) (00608)	(mg/L as N) (00625)	(mg/L as N) (00631)
NOV 15	8.90	231	231	282	0	12.5	.2	53.1	<10	284	<.04	.14	<.05
JAN 16		193	196	239	0				18		<.04	.13	.57
MAR 13		122	123	150	0				28		<.04	.31	.42
MAY 15 15	3.15 .46	127	127	154	0	2.83	E.1 <.1	17.7 .1	53 <10	171 <10	<.04 <.04	.34	.36 <.05
JUL 10		213	214	261	0				54		<.04	.14	.08
SEP 04		216	218	266	0				<10		<.04	.13	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 15	<.008	<.06	<.02	<.06	К2	К3	К9	13	48	.3	.05	E.1	<6
JAN 16 MAR	E.004	<.06	E.01	E.03	К1	K8	К9						
13 MAY	<.008	<.06	<.02	E.05	K210	480	217						
15 15 JUL	E.006 <.008	<.06 <.06	E.01 <.02	E.04 <.06	440	K186 	780 	108 8	551 8	.5 <.2	.45 <.04	1.4 <.1	E4 <6
10 SEP	<.008	<.06	<.02	<.06	К6	42	43						
04	<.008	<.06	<.02	<.06	K11	K8	K21						

# 07018100 BIG RIVER NEAR RICHWOODS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (μg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
15 JAN	40	4.79	18	19.6	<.01	<.3		9
16								
MAR 13								
MAY								
15	121	15.7	216	32.2	E.01	E.3	49	83
15	<10	<.08	<1	<2.0	<.01	<.3	<1	1
JUL								
10								
SEP								
04								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

### 07018500 BIG RIVER AT BYRNESVILLE, MO

LOCATION.--Lat  $38^{\circ}23'31"$ , long  $90^{\circ}38'18$ , in SE  $\frac{1}{4}$  sec.12, T.42 N., R.3 E., Jefferson County, Hydrologic Unit 07140104, on right bank on downstream side of pier of privately owned bridge at Byrnesville, 4.0 mi upstream from Heads Creek, and at mile 14.1.

DRAINAGE AREA.--917 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1921 to current year. Prior to June 1922 monthly discharge only, published WSP 1311.

REVISED RECORDS.--WSP 667: 1927. WSP 877: 1938. WSP 1007: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 433.69 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 9, 1940, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Aug. 21, 1915, reached a stage of 30.2 ft from floodmarks, discharge, 80,000  $\rm ft^3/s$ , by slope-area measurement of peak flow.

1		DISCHAR	RGE, CUBIO	C FEET PEF		WATER YE MEAN VA		R 2001 TO S	SEPTEMB	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	155	811	e320	6410	398	954	1080	679	245	134	183
2	64	151	899	e294	7630	440	854	920	607	229	132	171
3	64	142	609	e272	2540	521	770	808	549	218	132	160
4	63	136	444	e261	1570	607	705	708	502	210	129	153
5	71	132	355	259	1180	685	641	630	471	221	126	146
6	75	128	300	254	957	649	587	649	454	247	125	139
7	77	125	263	247	817	606	549	1240	446	225	122	133
8	83	122	245	240	721	569	594	4230	426	204	131	129
9	85	119	255	236	644	1300	1090	12600	405	191	140	125
10	90	117	234	233	577	6700	1640	21600	428	191	132	121
11	104	115	217	228	521	4120	1180	12500	467	237	434	117
12	128	114	218	224	474	1900	943	2740	569	347	158	114
13	115	113	265	220	436	1730	818	7250	1170	317	425	112
14	123	112	395	213	405	1470	746	15200	778	281	2260	110
15	130	113	634	205	378	1260	774	15300	617	308	1190	112
16	151	113	2190	200	357	1530	1020	3270	503	237	629	124
17	140	112	7230	194	338	1950	844	2600	426	207	456	151
18	137	112	11300	190	320	1590	724	9420	382	196	359	212
19	133	111	6760	192	328	1610	656	16200	353	208	312	336
20	126	110	2020	189	375	5110	744	5460	330	190	417	427
21	117	108	1370	190	709	6470	1020	2210	311	187	1690	486
22	113	106	1060	188	938	2860	1620	1670	298	180	1190	463
23	112	105	874	189	729	1790	1510	1360	284	e192	694	461
24	124	247	740	199	602	1400	1090	1160	266	e204	513	385
25	166	199	639	255	527	2510	894	1020	254	180	407	309
26 27 28 29 30 31	337 387 282 227 193 170	200 215 210 221 457	557 494 451 413 379 350	307 312 322 311 381 2180	479 449 423 	3820 2800 1830 1490 1280 1090	836 1050 2460 2330 1450	907 813 743 817 885 784	708 480 345 296 267	175 163 155 147 141 137	339 295 273 250 219 197	261 229 206 190 178
MEAN	137	151	1386	307	1137	2003	1036	4735	469	212	452	215
MAX	387	457	11300	2180	7630	6700	2460	21600	1170	347	2260	486
MIN	63	105	217	188	320	398	549	630	254	137	122	110
IN.	0.17	0.18	1.74	0.39	1.29	2.52	1.26	5.95	0.57	0.27	0.57	0.26
MEAN	324	699	873	905	1107	1438	1671	1448	821	481	295	346
MAX	2290	5084	5594	5064	3696	4539	7230	5196	4530	3895	1490	6464
(WY)	1950	1994	1983	1950	1982	1945	1994	1990	1928	1957	1950	1993
MIN	49.7	99.6	103	90.4	139	137	237	177	105	56.4	41.4	48.7
(WY)	1957	1977	1956	1977	1954	1954	2000	1932	1936	1936	1936	1956
SUMMARY	STATISTI	CS	FOR 2	2001 CALEN	IDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YEARS	1922 -	2002
LOWEST ANIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT. ANNUAL 10 PERC. 50 PERC.	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM W GE W FLOW NCHES) DS DS		406  11300 63 Seg 66 6.01 699 194 84			1025 21600 63 69 23800 22.54 63 15.18 1860 350 122	May 10 Oct 4 Oct 1 May 10 May 10 Oct 3,4		867 1934 227 57800 25 34 63600 29.37 25 12.84 1720 338 117	Sep 25 Aug 30 Aug 25 Sep 25 Sep 25 Aug 30	1936 1936 1993 1993

e Estimated

### 07019000 MERAMEC RIVER NEAR EUREKA, MO

LOCATION.--Lat  $38^{\circ}30^{\circ}20^{\circ}$ , long  $90^{\circ}35^{\circ}30^{\circ}$ , in SE  $\frac{1}{4}$  sec.32, T.44 N., R.4 E., St. Louis County, Hydrologic Unit 07140102, on right bank, 44 ft upstream from bridge on north access roadway of I-44, 2.0 mi east of Eureka, 3.0 mi downstream from Big River, and at mile 34.1.

DRAINAGE AREA. -- 3,788 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1903 to July 1906, October 1921 to current year. Monthly discharge only for January, February, and March 1904, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1938(M). WSP 977: 1942. WSP 1007: Drainage area. WSP 1281: 1924-25.

GAGE.--Water-stage recorder. Datum of gage is 404.18 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 17, 1933, nonrecording gage at site 200 ft upstream at different datum; Jan. 17, 1933, to Sept. 22, 1937, nonrecording gage; Sept. 23, 1937, to Sept. 30, 1971, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Records good. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Aug. 22, 1915, reached a stage of 42.2 ft, present datum, from floodmarks, discharge,  $175,000 \text{ ft}^3/\text{s}$ , by slope-area measurement of peak flow.

		DISCHA	RGE, CUBI	C FEET PEI		WATER Y		BER 2001 TO	SEPTEMBI	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492	800	2580	1430	18300	1430	4550	5820	3800	1250	839	1060
2	481	769	4670	1350	26700	1710	3860	4670	3260	1210	813	998
3	478	722	3510	1290	26500	2780	3350	3860	2650	1160	807	959
4	474	697	2420	1250	13200	6980	3010	3400	2430	1160	797	926
5	458	679	1930	1220	6660	5870	2760	3080	2360	1180	820	898
6	470	665	1640	1140	5100	4010	2500	2940	2300	1230	805	883
7	489	657	1450	1100	4170	3430	2330	4380	2170	1250	837	911
8	506	656	1310	1070	3450	3300	2440	11700	2070	1200	761	857
9	508	644	1220	1050	3010	4250	2910	26500	2140	1160	786	848
10	566	640	1160	1030	2680	8830	3960	42200	2100	1170	798	787
11	630	630	1100	1020	2400	10100	4060	54700	2100	1260	946	750
12	719	635	1070	1000	2180	7160	3790	45100	2690	1400	937	759
13	648	633	1220	988	2000	5720	3330	24500	4690	1360	999	704
14	633	623	1350	980	1840	5010	3050	30800	5140	1300	2670	710
15	668	613	1870	962	1720	4500	2900	44800	3450	1310	2540	720
16	764	620	4920	940	1610	5130	3130	46000	2620	1210	2020	718
17	749	624	14300	926	1520	5400	3100	25500	2200	1180	1650	765
18	700	628	22100	915	1460	6150	2880	22400	1940	1120	1380	889
19	687	623	26900	916	1440	5550	2680	37500	1780	1140	1320	1050
20	668	618	14400	920	1520	9210	3190	49000	1700	1090	1790	1280
21	667	614	7050	910	1690	14800	9130	32600	1640	1080	5310	1310
22	656	620	5210	906	2110	14600	17600	10600	1520	1290	4770	1250
23	647	635	4010	902	1990	8790	15900	7420	1480	1410	3630	1220
24	654	993	3330	919	1850	6280	8780	6030	1460	1260	2650	1230
25	744	1100	2800	936	1730	7450	6130	5210	1440	1150	2110	1090
26 27 28 29 30 31	826 985 987 1030 910 839	1060 1300 1440 1430 2000	2440 2160 1930 1760 1670 1550	997 1060 1130 1170 1320 7580	1670 1560 1470 	10000 11900 9530 7260 6360 5640	4900 4680 7840 8200 7660	4620 4220 3930 4040 4720 4100	1670 1640 1450 1330 1280	1190 1120 1100 1030 963 908	1760 1550 1420 1290 1170 1090	975 916 864 836 801
MEAN MAX MIN IN.	669 1030 458 0.20	812 2000 613 0.24	4678 26900 1070 1.42	1269 7580 902 0.39 OR PERIOD	5055 26700 1440 1.39	6746 14800 1430 2.05	5153 17600 2330 1.52	18590 54700 2940 5.66	2283 5140 1280 0.67	1188 1410 908 0.36	1647 5310 761 0.50	932 1310 704 0.27
MEAN	1404	2480	2998	3178	3896	5218	6257	5444	3611	1911	1195	1412
MAX	12120	15450	23620	17320	14730	13960	22580	18590	18070	12600	5441	18500
(WY)	1950	1986	1983	1950	1982	1978	1927	2002	1945	1951	1993	1993
MIN	236	464	426	374	538	514	945	708	503	318	255	244
(WY)	1957	1957	1956	1956	1954	1954	1954	1932	1936	1936	1936	1956
SUMMARY	STATISTI	CS	FOR	2001 CALE	NDAR YEAR		FOR 2002	WATER YEAR		FOR P	ERIOD OF	FRECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN INSTANT ANNUAL 10 PERC	MEAN  ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY 4 PEAK FLC 4 PEAK STA CANEOUS LC RUNOFF (I CENT EXCEE CENT EXCEE CENT EXCEE	CAN CAN AN MINIMUM AGE OW FLOW CNCHES) CDS		26900 449 471  6.52 3150 916 535	Dec 19 Sep 7 Sep 2		4097 54700 458 477 56600 26.70 434 14.69 8430 1450 668	May 11 Oct 5 Oct 1 May 11 May 11 Oct 4,5		3236 7407 751 139000 196 209 145000 42.89 196 11.61 6750 1400 530	Aug Aug Dec Dec	1985 1954 6 1982 27 1936 6 1982 6 1982 27 1936

## 07019072 KIEFER CREEK NEAR BALLWIN, MO

LOCATION.--Lat  $38^{\circ}33^{\circ}19^{\circ}$ , long  $90^{\circ}33^{\circ}06^{\circ}$ , in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.15, T.44 N., R.4 E., St. Louis County, Hydrologic Unit 07140102, on left downstream abutment of Castlewood Road bridge, 0.2 mi upstream of Spring Branch, 3.2 mi west of Highway 141, and 1.3 mi upstream of Meramec River.

DRAINAGE AREA. -- 3.91 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 438.90 ft above National Geodetic Vertical Datum of 1929.  ${\tt REMARKS.--Water-discharge\ records\ poor.\ U.S.G.S.\ satellite\ telemeter\ at\ station.}$ 

		DISCHAR	GE, CUBIC		SECOND, N		AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.5 e1.2 0.94 0.91 e0.90	e1.3 e1.5 e1.8 e1.5 e1.2	5.1 3.3 2.6 2.2 1.8	1.7 1.7 1.6 1.6	24 10 6.4 4.9 4.0	1.9 13 7.8 5.1 4.0	4 6	6.3 5.8 4.7 4.4	3.6 3.0 2.9 2.6 5.6	2.5 2.6 14 4.6 2.0	1.2 1.2 1.3 1.3	1.5 1.2 1.3 1.4 1.4
6 7 8 9 10	1.9 1.1 1.0 1.3	e1.1 1.1 1.2 1.2	2.2 1.7 1.5 1.4	1.6 1.5 1.5 1.6 1.6	3.6 3.1 2.7 2.7 2.7	3.7 3.3 3.1 13 5.1	2.9 2.8 10 5.7 3.9	6.7 45 50 61 21	4.1 2.4 2.0 2.0 4.8	1.6 1.4 1.3 1.6 2.3	2.5 1.9 1.8 1.7	1.3 1.4 1.4 1.4
11 12 13 14 15	25 6.0 e4.0 2.9 2.0						3.5 3.5 3.6 3.1 2.8					1.2 1.2 0.95 1.1 1.2
16 17 18 19 20	5.6 3.1 1.9 1.6 1.5						2.6 3.5 2.6 5.0					1.2 4.3 5.9 20 12
21 22 23 24 25	e1.4 e1.2 e1.2 e4.0 e5.3	1.0 1.0 1.0 45 4.8	3.4 3.8 3.6 2.7 2.5	1.8 1.8 1.8 3.4 2.0	3.3 2.5 2.3 2.2 2.3	5.6 5.5 5.3 5.2 25	12 7.5 4.9 8.7 6.0	8.7 7.5 6.8 6.9	2.8 1.9 1.9 1.9	1.5 1.5 2.2 1.4 1.3		5.3 3.2 2.7 2.5 2.4
	e2.6 e2.0 e1.8 e1.6 e1.5	3.2 3.0 6.9 11 14	2.4 2.2 2.1 1.8 1.8	1.8 1.7 1.6 1.9 30 73	2.6 2.2 2.1 	13 10 7.6 6.4 6.2 5.4	4.5 18 19 8.9 7.1	6.2 5.5 5.2 5.0 4.8 4.3	1.9 1.9 1.7 1.7 2.1	1.4 1.4 1.4 1.2	1.9 1.8 1.7 1.6 1.5	2.1 2.1 1.9 1.8 1.8
MEAN MAX MIN IN.		3.82 45 0.92 1.09					6.13 19 2.6					2.94 20 0.95 0.84
STATIST	CS OF MO	ONTHLY MEA	N DATA FO	R WATER Y	EARS 1996	- 2002,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	3.36 6.61 1997 1.86 2000	4.13 10.7 1997 1.35 2000	3.01 6.35 2002 1.35 1999	4.91 10.3 1999 1.41 2000	7.86 12.5 1999 3.96 2002	6.88 16.1 1998 2.75 2001	5.07 7.65 1998 1.97 2000	7.84 16.2 2002 3.12 1997	7.87 16.9 1998 1.68 1999	3.54 8.87 1998 1.70 1997	2.81 6.29 1998 1.53 2001	3.58 12.1 1996 0.82 1999
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEAI	R	FOR 2002 V	VATER YEA	AR.	WATER YEA	ARS 1996	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	ANNUAL N	EAN EAN AN MINIMUM AGE DW FLOW ENCHES) EDS		3.58 46 0.73 0.86  12.42 6.6 1.7 1.0	Dec 1' Aug ' May 1:	7 7 1	5.61 116 0.90 1.0 2240 <sup>a</sup> 8.20 0.90 19.49 12 2.4 1.2	Jun 1 Oct Nov 1 Jun 1 Jun 1	.2 5 .5 .2 .2 .2 5	4.95 7.06 3.11 251 0.61 0.70 2240 <sup>a</sup> 8.20 0.22 17.19 9.3 2.2	May Feb 1 Sep 2 Jun 1 Jun 1 Sep 2	1998 2001 7 2000 12 2000 21 1999 12 2002 12 2002 20 2000

e Estimated  $^{\rm a}$  From rating extended above 251 ft $^{\rm 3}/{\rm s}$ .

# 07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued (Metropolitan Sewer District)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

DATE  OCT     10 DEC     11 FEB     05 MAY     29 AUG     06	0744 0950 1142 1350 1010	SAMPLE TYPE ENVIRONM ENVIRONM ENVIRONM ENVIRONM	IENTAL IENTAL IENTAL	DIS- CHARGE, INST. (cubic feet per second) (00061) 108 1.3 3.8 5.7	OXYGEN, DIS- SOLVED (mg/L) (00300) 9.0 9.3 9.4 9.1	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)  93  90  89  90  93	pH WATER WHOLE FIELD (stand- ard units) (00400) 7.4 6.8 7.2 7.1	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095) 230 876 820 818 839	TEMPER-ATURE WATER (deg C) (00010)  16.5  13.1  12.5  13.9  14.0	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900) 85 340 260 330	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)  26.4  105 82.0 105 71.0	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925) 4.68 18.0 13.0 16.0	ANC WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  63 228 196 243 237
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 10	61	75	0		315	E1.6	.14	.870	.02	.380	.56	5.3	19
DEC 11	231	282	0	80.8	<1	<.20	.03	E1.80	<.01	.040	E.04	72	13
FEB 05	197	240	0	94.0	15	.30	<.01	1.90	<.01	.040	.05	27	<5
MAY 29	244	298	0		3	<.20	.01	1.70	<.01	.020	<.02	35	7
AUG 06	237	289	0		5	.20	<.01	1.80	<.01	.020	.03	30	8
DATE  OCT 10	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 10 DEC	MTEC MF WATER (col./ 100 mL) (31633)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	INUM, DIS- SOLVED (µg/L as A1) (01106)	DIS- SOLVED (µg/L as As) (01000)	LIUM, DIS- SOLVED (µg/L as Be) (01010)	DIS- SOLVED (µg/L as Cd) (01025)	MIUM, DIS- SOLVED (µg/L as Cr) (01030)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 10 DEC 11 FEB	MTEC MF WATER (col./ 100 mL) (31633) 28000 K70	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625) 34000 K114	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 24800	INUM, DIS- SOLVED (µg/L as Al) (01106)	DIS- SOLVED (µg/L as As) (01000)	LIUM, DIS- SOLVED (µg/L as Be) (01010)	DIS- SOLVED (µg/L as Cd) (01025)	MIUM, DIS- SOLVED (µg/L as Cr) (01030) 1.0	DIS- SOLVED (µg/L as Cu) (01040) 2.8	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 10 DEC 11 FEB 05	MTEC MF WATER (col./ 100 mL) (31633)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	INUM, DIS- SOLVED (µg/L as A1) (01106)	DIS- SOLVED (µg/L as As) (01000)	LIUM, DIS- SOLVED (µg/L as Be) (01010)	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0	MIUM, DIS- SOLVED (µg/L as Cr) (01030) 1.0 1.7	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 10 DEC 11 FEB 05 MAY 29 AUG	MTEC MF WATER (col./ 100 mL) (31633) 28000 K70 K20	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)  34000 K114 K40 105	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 24800 35 K69 380	INUM, DIS- SOLVED (µg/L as Al) (01106)  736  3 30 5	DIS- SOLVED (µg/L as As) (01000) 2 2 2 <1	LIUM, DIS- SOLVED (µg/L as Be) (01010) <1 1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0 <1.0	MIUM, DIS- SOLVED (µg/L as Cr) (01030) 1.0 1.7 <1.0	DIS- SOLVED (µg/L as Cu) (01040) 2.8 1.0 <1.0	DIS- SOLVED (µg/L as Fe) (01046) 516 3	DIS- SOLVED (µg/L as Pb) (01049) <1 <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056) 31 25 30 51	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  .1 <.1 <.1 <.1
OCT 10 DEC 11 FEB 05 MAY 29	MTEC MF WATER (col./ 100 mL) (31633) 28000 K70 K20	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625) 34000 K114 K40	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 24800 35 K69	INUM, DIS- SOLVED (µg/L as Al) (01106) 736 3	DIS- SOLVED (µg/L as As) (01000) 2 2 2	LIUM, DIS- SOLVED (µg/L as Be) (01010) <1 1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0 <1.0 <1.0 <1.0	MIUM, DIS- SOLVED (µg/L as Cr) (01030) 1.0 1.7	DIS- SOLVED (µg/L as Cu) (01040) 2.8 1.0 <1.0	DIS- SOLVED (µg/L as Fe) (01046) 516 3 16 6	DIS- SOLVED (µg/L as Pb) (01049)	NESE, DIS- SOLVED (µg/L as Mn) (01056) 31 25 30	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  .1 <.1 <.1
OCT 10 DEC 11 FEB 05 MAY 29 AUG 06	MTEC MF WATER (col./100 mL) (31633)  28000  K70  K20  160  160  NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	FORM, FECAL, 0.7   µm-MF (col./ 100 mL) (31625)  34000   K114   K40   105   320    SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 24800 35 K69 380 K138 SILVER, DIS- SOLVED (µg/L as Ag) (01075)	INUM, DIS- SOLVED (µg/L as Al) (01106)  736  3  30  5  <3  ZINC, DIS- SOLVED (µg/L as Zn) (01090)	DIS- SOLVED (μg/L as As) (01000) 2 2 <1 <1 <1 OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1 <1 <1 (1 <1 (1) <1 (1) (1) (1) (2) (3) (4) (4) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0 <1.0 <1.0 <1.0 1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	MIUM, DIS- SOLVED (µg/L as Cr) (01030)  1.0  1.0  1.7  <1.0  <1.0  CHLORO-PHENOL (µg/L) (34621)	DIS- SOLVED (µg/L as Cu) (01040)  2.8  1.0 <1.0 <1.0 <1.10  2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	DIS- SOLVED (µg/L) as Fe) (01046) 516 3 16 6 3 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L) as Pb) (01049) <1 <1 <1 <1 <1 <1 <1 VI NITRO- PHENOL TOTAL (µg/L) (34616)	NESE, DIS- SOLVED (µg/L as Mn) (01056) 31 25 30 51 13 2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	TOTAL RECOV-ERABLE (μg/L as Hg) (71900)  .1 <.1 <.1 <.1 <.1 <.1 (.1 )
OCT 10 DEC 11 FEB 05 MAY 29 AUG 06  DATE	MTEC MF WATER (col./100 mL) (31633)  28000  K70  K20  160  160  NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	FORM, FECAL, 0.7 pm-MF (col./ 100 mL) (31625)  34000 K114 K40 105 320  SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)  24800  35  K69  380  K138  SILVER, DIS- SOLVED (µg/L as Ag) (01075)  <1.0	INUM, DIS- SOLVED (µg/L as Al) (01106)  736  3  30  5  <3  ZINC, DIS- SOLVED (µg/L as Zn) (01090)	DIS- SOLVED (μg/L as As) (01000)  2  2  <1 <1 <1  OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)  E5	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1 <1 <1 (1) <1 (1) <1 (1) <1 <1 (1) <1 <1 (1) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 <1.0 <1.0 <1.0 <1.0 1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	MIUM, DIS- SOLVVED (μg/L as Cr) (01030) 1.0 1.7 <1.0 <1.0 2,4,6- TRI- CHLORO- PHENOL TOTAL (μg/L) (34621)	DIS- SOLVED (µg/L as Cu) (01040)  2.8  1.0 <1.0 <1.0 <1.0  1.0  2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)  <3.0	DIS- SOLVED (µg/L) as Fe) (01046) 516 3 16 6 3 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L) as Pb) (01049) <1 <1 <1 <1 <1 <1 <1 (1 <1 (1 (1) (1) (1) (1) (1) (1) (1) (1) (1)	NESE, DIS- SOLVED (μg/L as Mn) (01056) 31 25 30 51 13	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  .1 <.1 <.1 <.1 <.1 <.1 (.1 )  .1 (.1 )  .1 (.1 )  .1 (.1 )  .1 (.2 )  .1 (.1 )  .1 (.1 )  .1 (.2 )  .1 (.2 )  .1 (.3 )
OCT 10 DEC 11 FEB 05 MAY 29 AUG 06  DATE  OCT 10 DEC 11 FEB	MTEC MF WATER (col./100 mL) (31633)  28000  K70  K20  160  160  NICKEL, DIS-SOLVED (µg/L as Ni) (01065)  1.5  1.1	FORM, FECAL, 0.7 pm-MF (col./100 mL) (31625)  34000 K114 K40 105 320  SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 24800 35 K69 380 K138 SILVER, DIS- SOLVED (µg/L as Ag) (01075) <1.0	INUM, DIS- SOLVED (µg/L as Al) (01106)  736  3 30 5 <3  ZINC, DIS- SOLVED (µg/L as Zn) (01090)  55 37	DIS- SOLVED (µg/L as As) (01000) 2 2 <1 <1 <1 OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1  CI <1 (1)  (1)  (1)  (1)  (1)  (1)  (1)  (	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0	MIUM, DIS- SOLVVED (μg/L as Cr) (01030) 1.0 1.7 <1.0 <1.0 2,4,6- TRI- CHLORO- PHENOL TOTAL (μg/L) (34621) <3	DIS- SOLVED (µg/L as Cu) (01040)  2.8  1.0 <1.0 <1.0 <1.0  2,4-DI-METHYL-PHENOLL TOTAL (µg/L) (34606)  <3.0	DIS- SOLVED (µg/L as Fe) (01046) 516 3 16 6 3 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L as Pb) (01049) <1 <1 <1 <1 <1 <1 <1 (1 (1 (1 (1) (1) (1) (1) (1) (1) (1) (	NESE, DIS- SOLVED (μg/L as Mn) (01056) 31 25 30 51 13 2,4-DI- NITRO- TOLUENE TOTAL (μg/L) (34611)	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  .1
OCT	MTEC MF WATER (col./100 mL) (31633)  28000  K70  K20  160  160  NICKEL, DIS-SOLVED (µg/L as Ni) (01065)  1.5  1.1  1.2	FORM, FECAL, 0.7 pm-MF (col./ 100 mL) (31625)  34000 K114 K40 105 320  SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)  <1 1 <1	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)  24800  35  K69  380  K138  SILVER, DIS- SOLVED (µg/L as Ag) (01075)  <1.0 <1.0 <1.0	INUM, DIS- SOLVED (µg/L as Al) (01106)  736  3  30  5  <3  ZINC, DIS- SOLVED (µg/L as Zn) (01090)  55  37  45	DIS- SOLVED (μg/L as As) (01000)  2  2  <1 <1 <1  OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)  E5	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1 <1 <1 (1) <1 (1) <1 (1) <1 <1 (1) <1 <1 (1) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 <1.0 <1.0 <1.0 <1.0 1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	MIUM, DIS- SOLVVED (μg/L as Cr) (01030) 1.0 1.7 <1.0 <1.0 2,4,6- TRI- CHLORO- PHENOL TOTAL (μg/L) (34621)	DIS- SOLVED (µg/L as Cu) (01040)  2.8  1.0 <1.0 <1.0 <1.0  1.0  2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)  <3.0	DIS- SOLVED (µg/L) as Fe) (01046) 516 3 16 6 3 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L) as Pb) (01049) <1 <1 <1 <1 <1 <1 <1 (1 <1 (1 (1) (1) (1) (1) (1) (1) (1) (1) (1)	NESE, DIS- SOLVED (µg/L as Mn) (01056) 31 25 30 51 13 2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  .1 <.1 <.1 <.1 <.1 <.1 (.1 )  .1 (.1 )  .1 (.1 )  .1 (.1 )  .1 (.2 )  .1 (.1 )  .1 (.1 )  .1 (.2 )  .1 (.2 )  .1 (.3 )
OCT 10 DEC 11 FEB 05 MAY 29 AUG 06  DATE  OCT 10 DEC 11 FEB 05	MTEC MF WATER (col./100 mL) (31633)  28000  K70  K20  160  160  NICKEL, DIS-SOLVED (µg/L as Ni) (01065)  1.5  1.1	FORM, FECAL, 0.7 pm-MF (col./100 mL) (31625)  34000 K114 K40 105 320  SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 24800 35 K69 380 K138 SILVER, DIS- SOLVED (µg/L as Ag) (01075) <1.0	INUM, DIS- SOLVED (µg/L as Al) (01106)  736  3 30 5 <3  ZINC, DIS- SOLVED (µg/L as Zn) (01090)  55 37	DIS- SOLVED (µg/L as As) (01000) 2 2 <1 <1 <1 OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1  CI <1 (1)  (1)  (1)  (1)  (1)  (1)  (1)  (	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0	MIUM, DIS- SOLVVED (μg/L as Cr) (01030) 1.0 1.7 <1.0 <1.0 2,4,6- TRI- CHLORO- PHENOL TOTAL (μg/L) (34621) <3	DIS- SOLVED (µg/L as Cu) (01040)  2.8  1.0 <1.0 <1.0 <1.0  2,4-DI-METHYL-PHENOLL TOTAL (µg/L) (34606)  <3.0	DIS- SOLVED (µg/L as Fe) (01046) 516 3 16 6 3 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L as Pb) (01049) <1 <1 <1 <1 <1 <1 <1 (1 (1 (1 (1) (1) (1) (1) (1) (1) (1) (	NESE, DIS- SOLVED (μg/L as Mn) (01056) 31 25 30 51 13 2,4-DI- NITRO- TOLUENE TOTAL (μg/L) (34611)	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  .1

# 07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued (Metropolitan Sewer District)

DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (μg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 10	<2	<2	<3	<3	<3	<2	<2	<3	<2	<2	<.01	М	<2
DEC 11													
FEB 05													
MAY													
29 AUG													
06													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZO- [A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLITED (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10	<40	М	М	М	М	М	<3	<2	<2	E3	<.02	<.1	<.01
DEC 11													
FEB 05													
MAY 29													
AUG													
06													
DATE	CHRY- SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (μg/L) (39398)	FLUOR- ANTHENE TOTAL (µg/L) (34376)
DATE  OCT 10	SENE TOTAL (µg/L)	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L)	TOTAL (µg/L)	AZINON, TOTAL (µg/L)	ELDRIN TOTAL (µg/L)	PHTHAL- ATE TOTAL (µg/L)	METHYL PHTHAL- ATE TOTAL (µg/L)	BUTYL PHTHAL- ATE TOTAL (µg/L)	OCTYL PHTHAL- ATE TOTAL (µg/L)	SULFAN I TOTAL (µg/L)	WATER UNFLTRD REC (µg/L)	TOTAL (µg/L)	ANTHENE TOTAL (µg/L)
OCT	SENE TOTAL (µg/L) (34320)	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	TOTAL (µg/L) (39040)	AZINON, TOTAL (µg/L) (39570)	ELDRIN TOTAL (µg/L) (39380)	PHTHAL- ATE TOTAL (µg/L) (34336)	METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	SULFAN I TOTAL (µg/L) (39388)	WATER UNFLTRD REC (µg/L) (39390)	TOTAL (µg/L) (39398)	ANTHENE TOTAL (µg/L) (34376)
OCT 10 DEC 11 FEB	SENE TOTAL (µg/L) (34320)	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	TOTAL (µg/L) (39040) E.01	AZINON, TOTAL (µg/L) (39570)	ELDRIN TOTAL (µg/L) (39380)	PHTHAL- ATE TOTAL (µg/L) (34336)	METHYL PHTHAL- ATE TOTAL (μg/L) (34341)	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	SULFAN I TOTAL (µg/L) (39388)	WATER UNFLTRD REC (µg/L) (39390)	TOTAL (µg/L) (39398)	ANTHENE TOTAL (µg/L) (34376)
OCT 10 DEC 11 FEB 05	SENE TOTAL (µg/L) (34320)	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	TOTAL (µg/L) (39040) E.01	AZINON, TOTAL (µg/L) (39570)	ELDRIN TOTAL (µg/L) (39380) <.006	PHTHAL- ATE TOTAL (µg/L) (34336) <2 	METHYL PHTHAL- ATE TOTAL (μg/L) (34341)	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	SULFAN I TOTAL (µg/L) (39388)	WATER UNFLTRD REC (µg/L) (39390)	TOTAL (µg/L) (39398)	ANTHENE TOTAL (µg/L) (34376) M 
OCT 10 DEC 11 FEB 05 MAY 29 AUG	SENE TOTAL (µg/L) (34320) M 	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2	ΤΟΤΑL (μg/L) (39040) E.01 	AZINON, TOTAL (µg/L) (39570)	ELDRIN TOTAL (µg/L) (39380) <.006	PHTHAL- ATE TOTAL (µg/L) (34336) <2 	METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  <2	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	SULFAN I TOTAL (µg/L) (39388) < .02	WATER UNFLITED REC (µg/L) (39390) <.01	TOTAL (µg/L) (39398)  <.01	ANTHENE TOTAL (µg/L) (34376) M 
OCT 10 DEC 11 FEB 05 MAY 29	SENE TOTAL (µg/L) (34320)	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	TOTAL (µg/L) (39040) E.01	AZINON, TOTAL (µg/L) (39570)	ELDRIN TOTAL (µg/L) (39380) <.006	PHTHAL- ATE TOTAL (µg/L) (34336) <2 	METHYL PHTHAL- ATE TOTAL (μg/L) (34341)	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	SULFAN I TOTAL (µg/L) (39388)	WATER UNFLTRD REC (µg/L) (39390)	TOTAL (µg/L) (39398)	ANTHENE TOTAL (µg/L) (34376) M 
OCT 10 DEC 11 FEB 05 MAY 29 AUG	SENE TOTAL (µg/L) (34320) M 	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2	ΤΟΤΑL (μg/L) (39040) E.01 	AZINON, TOTAL (µg/L) (39570)	ELDRIN TOTAL (µg/L) (39380) <.006	PHTHAL- ATE TOTAL (µg/L) (34336) <2 	METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  <2	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	SULFAN I TOTAL (µg/L) (39388) < .02	WATER UNFLITED REC (µg/L) (39390) <.01	TOTAL (µg/L) (39398)  <.01	ANTHENE TOTAL (µg/L) (34376) M 
OCT 10 DEC 11 FEB 05 MAY 29 AUG 06	SENE TOTAL (μg/L) (34320)  M FLUOR- ENE TOTAL (μg/L)	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2 FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L)	TOTAL (µg/L) (39040)  E.01  HEPTA-CHLOR EPOXIDE TOTAL (µg/L)	AZINON, TOTAL (μg/L) (39570)  .02 HEPTA- CHLOR, TOTAL (μg/L)	ELDRIN TOTAL (µg/L) (39380) <.006 HEXA- CHLORO- BENZENE TOTAL (µg/L)	PHTHAL- ATE TOTAL (μg/L) (34336) <2     INDENO (1,2,3- CD) PYRENE TOTAL (μg/L)	METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  <2 ISO- PHORONE TOTAL (µg/L)	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M LINDANE TOTAL (µg/L)	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M MALA- THION, TOTAL (µg/L)	SULFAN I TOTAL (µg/L) (39388)  <.02 METH- OXY- CHLOR, TOTAL (µg/L)	WATER UNFLITED REC (µg/L) (39390)  <.01 METHYL PARA- THION, TOTAL (µg/L)	TOTAL (µg/L) (39398)  <.01  MIREX, TOTAL (µg/L)	ANTHENE TOTAL (µg/L) (34376)  M N-BUTYL BENZYL PHTHAL ATE TOTAL (µg/L)
OCT	SENE TOTAL (µg/L) (34320)  M FLUOR- ENE TOTAL (µg/L) (34381)	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2 FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	TOTAL (µg/L) (39040)  E.01  HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	AZINON, TOTAL (μg/L) (39570)  .02 HEPTA- CHLOR, TOTAL (μg/L) (39410)	ELDRIN TOTAL (µg/L) (39380) <.006 HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	PHTHAL- ATE TOTAL (µg/L) (34336)  <2 INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	METHYL PHTHAL- ATE TOTAL (μg/L) (34341)  <2 ISO- PHORONE TOTAL (μg/L) (34408)	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M LINDANE TOTAL (µg/L) (39340)	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M MALA- THION, TOTAL (µg/L) (39530)	SULFAN I TOTTAL (µg/L) (39388)  <.02 METH- OXY- CHLOR, TOTAL (µg/L) (39480)	WATER UNFLITED REC (µg/L) (39390)  <.01 METHYL PARA- THION, TOTAL (µg/L) (39600)	TOTAL (µg/L) (39398)  <.01 MIREX, TOTAL (µg/L) (39755)	ANTHENE TOTAL (µg/L) (34376)  M N-BUTYL BENZYL PHTHAL ATE TOTAL (µg/L) (34292)
OCT 10 DEC 11 FEB 05 MAY 29 AUG 06  DATE  OCT 10 DEC 11 FEB	SENE TOTAL (µg/L) (34320)  M FLUOR- ENE TOTAL (µg/L) (34381)	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2  FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)  <.01	TOTAL (µg/L) (39040)  E.01  HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)  <.009	AZINON, TOTAL (μg/L) (39570)  .02 HEPTA- CHLOR, TOTAL (μg/L) (39410)  <.01	ELDRIN TOTAL (µg/L) (39380)  <.006   HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	PHTHAL- ATE TOTAL (µg/L) (34336)  <2 INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)  M	METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  <2 ISO- PHORONE TOTAL (µg/L) (34408)	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M LINDANE TOTAL (µg/L) (39340) <.006	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M MALA- THION, TOTAL (µg/L) (39530) <.20	SULFAN I TOTTAL (µg/L) (39388)  <.02	WATER UNFLITED REC (µg/L) (39390)  <.01  METHYL PARA- THION, TOTAL (µg/L) (39600)  <.01	TOTAL (µg/L) (39398)  <.01 MIREX, TOTAL (µg/L) (39755)  <.006	N-BUTYL BENZYL PHTHAL ATE TOTAL (µg/L) (34376)  M N-BUTYL BENZYL PHTHAL ATE TOTAL (µg/L) (34292)
OCT	SENE TOTAL (µg/L) (34320)  M FLUOR-ENE TOTAL (µg/L) (34381)  <2	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2 FONOFOS (DY- FONATE) WATER WHOLE TOT. REC (µg/L) (82614)  <.01	TOTAL (μg/L) (39040)  E.01  HEPTA-CHLOR EPOXIDE TOTAL (μg/L) (39420)  <.009	AZINON, TOTAL (μg/L) (39570)  .02 HEPTA- CHLOR, TOTAL (μg/L) (39410)  <.01	ELDRIN TOTAL (µg/L) (39380)  <.006  HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)  <2	PHTHAL- ATE TOTTAL (µg/L) (34336)  <2 INDENO (1,2,3- CD) PYRENE TOTTAL (µg/L) (34403)  M	METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  <2 ISO- PHORONE TOTAL (µg/L) (34408)  M	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M LINDANE TOTAL (µg/L) (39340)  <.006	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M MALA- THION, TOTAL (µg/L) (39530)  <.20	SULFAN I TOTTAL (µg/L) (39388)  <.02 METH- OXY- CHLOR, TOTTAL (µg/L) (39480)  <.020	WATER UNFLITED REC (µg/L) (39390)  <.01  METHYL PARA- THION, TOTAL (µg/L) (39600)  <.01	TOTAL (µg/L) (39398)  <.01 MIREX, TOTAL (µg/L) (39755)  <.006	ANTHENE TOTAL (µg/L) (34376)  M N-BUTYL BENZYL PHTHAL ATE TOTAL (µg/L) (34292)  <4
OCT	SENE TOTAL (µg/L) (34320)  M FLUOR-ENE TOTAL (µg/L) (34381)  <2	NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2 FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)  <.01	TOTAL (µg/L) (39040)  E.01  HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)  <.009	AZINON, TOTAL (μg/L) (39570)  .02 HEPTA- CHLOR, TOTAL (μg/L) (39410)  <.01	ELDRIN TOTAL (µg/L) (39380)  <.006 HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)  <2	PHTHAL- ATE TOTAL (µg/L) (34336)  <2 INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)  M	METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  <2 ISO- PHORONE TOTAL (µg/L) (34408)  M	BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M LINDANE TOTAL (µg/L) (39340) <.006	OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M MALA- THION, TOTAL (µg/L) (39530)  <.20	SULFAN I TOTTAL (µg/L) (39388)  <.02 METH- OXY- CHLOR, TOTAL (µg/L) (39480)  <.020	WATER UNFLTRD REC (µg/L) (39390)  <.01 METHYL PARA- THION, TOTAL (µg/L) (39600)  <.01	TOTAL (µg/L) (39398)  <.01  MIREX, TOTAL (µg/L) (39755)  <.006	ANTHENE TOTAL (µg/L) (34376)  M N-BUTYL BENZYL PHTHAL ATE TOTAL (µg/L) (34292)  <4

## 07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued (Metropolitan Sewer District)

DATE	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (μg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)
OCT 10 DEC	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0	<.02
11													
FEB 05													
MAY 29													
AUG 06													
	DA	TE	PYRENE TOTAL (µg/L) (34469)	TOX- APHENE, TOTAL (µg/L) (39400)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34536)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (µg/L) (34396)	HEXA- CHLORO- BUT- ADIENE TOTAL (µg/L) (39702)	NAPHTH- ALENE TOTAL (µg/L) (34696)		
	OCI 1 DEC	.0	М	<1	<2	<2	<2	<2	<2	<3	<5		
		1											
	0	5											
	MAY 2 AUG	9											

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

## 07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO

LOCATION.--Lat 38°32'04", long 90°30'51", St. Louis County, Hydrologic Unit 07140102, on left downstream wingwall of Meramec Station Road bridge, 0.1 mi south of Interstate 44, 1.01 mi west of Highway 141, and 0.6 mi upstream of Meramec River. DRAINAGE AREA.--7.62 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 415.75 ft above National Geodetic Vertical Datum of 1929. REMARKS.--Water-discharge records fair except estimated daily discharges, which are poor.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	0.63 0.63 0.63 0.63	0.84 1.1 1.5 1.2 0.85	12 6.6 4.6 3.4 2.7	2.3 2.0 1.9 1.8	60 30 20 13 9.8	1.2 8.7 17 9.6 6.9	8.8 7.7 5.5 4.4 4.5	17 13 8.9 7.0 5.5	4.3 3.9 3.7 3.2 3.1	1.4 1.3 1.2 1.2	0.84 0.84 0.72 0.53 0.53	0.36 0.36 0.35 0.29 0.29		
6 7 8 9 10	2.3 1.3 0.96 0.78 6.9	0.69 0.63 0.63 0.63 0.63	2.3 2.0 1.8 1.6	1.8 1.7 1.5 1.5	8.0 6.3 5.1 4.5 3.7	6.2 5.0 4.3 29 24	3.8 3.6 8.4 7.9 6.0	7.1 42 94 89 43	3.0 2.6 2.5 2.4 2.5	1.1 1.0 0.96 0.96 0.99	0.53 0.53 0.47 0.45 0.45	0.29 0.29 0.31 0.29 0.29		
11 12 13 14 15	10 15 5.4 4.3 3.2	0.63 0.57 0.53 0.53 0.62	1.3 2.2 8.8 16	1.3 1.2 1.2 1.2	2.6 2.4 1.9 1.7	17 13 8.9 6.9 8.0	5.8 5.3 4.6 4.5 4.2	e19 e34 e74 38 e20	4.6 25 18 9.4 6.3	1.1 1.1 1.1 1.1 0.99	0.45 0.62 0.71 1.2 0.95	0.33 0.36 0.36 0.35 0.42		
16 17 18 19 20	9.8 5.0 2.9 2.0 1.5	0.59 0.53 0.53 0.53 0.53	43 78 31 19 13	1.0 0.96 0.84 0.84 0.95	1.4 1.2 1.0 2.2 5.0	20 15 11 15 27	3.5 3.0 2.6 2.9 7.1	e22 e62 40 29 e20	5.0 3.8 3.3 3.0 2.5	0.87 0.84 0.78 0.73	0.66 0.53 1.8 2.6 1.2	0.45 0.50 1.5 1.6 2.9		
21 22 23 24 25	1.1 1.0 1.1 5.3 6.6	0.47 0.53 0.51 21 7.9	10 8.7 7.5 6.3 5.2	1.1 1.1 1.0 1.5 1.6	2.8 2.0 1.9 1.9	21 15 13 10 32	19 30 18 14 13	e16 14 12 10 9.4	2.4 2.2 2.1 1.9 1.9	0.73 0.75 0.76 0.73 0.73	0.92 0.68 0.54 0.60 0.63	2.4 1.2 0.79 0.53 0.40		
26 27 28 29 30 31	3.0 2.0 1.4 1.2 1.0 0.84	3.7 2.7 4.5 9.1 24	4.6 4.1 3.9 3.2 2.7 2.5	1.4 1.2 1.2 1.2 9.5	1.8 1.6 1.3 	33 29 23 18 14	8.8 32 69 34 23	7.9 7.0 6.3 5.9 5.5 4.8	1.8 1.7 1.6 1.6	0.73 0.73 0.73 0.73 0.73 0.81	0.58 0.50 0.45 0.41 0.36 0.36	0.36 0.42 0.39 0.35 0.32		
MEAN MAX MIN	3.22 15 0.63	2.96 24 0.47	10.4 78 1.3	4.36 86 0.84	7.02 60 1.0	15.2 33 1.2	12.2 69 2.6	25.3 94 4.8	4.36 25 1.5	0.93 1.4 0.73	0.73 2.6 0.36	0.64 2.9 0.29		
STATIS	TICS OF MC	NTHLY MEA	N DATA FO	R WATER Y	EARS 1997	- 2002,	BY WATER	YEAR (WY)						
MEAN MAX (WY) MIN (WY)	1.56 3.22 2002 0.75 2000	1.80 2.96 2002 0.62 2000	3.12 10.4 2002 0.91 1999	4.68 11.1 1999 0.76 2000	9.98 21.5 1999 1.96 2000	11.7 30.5 1998 1.69 2000	9.13 17.8 1998 1.25 2000	9.98 25.3 2002 1.71 2001	6.78 16.7 1998 1.98 2001	3.35 8.27 1998 0.93 2002	2.44 5.75 1998 0.73 2002	1.17 1.75 2000 0.56 1999		
SUMMAR	Y STATISTI	CS	FOR	2001 CAL	ENDAR YEA	R	FOR 2002	WATER YEAR	R	WATER YE	ARS 1997	- 2002		
LOWEST HIGHES' LOWEST ANNUAL MAXIMUI MAXIMUI INSTAN' 10 PERO 50 PERO	MEAN I ANNUAL ME ANNUAL ME I DAILY ME SEVEN-DAY M PEAK FLO M PEAK STA TANEOUS LO CENT EXCER CENT EXCER CENT EXCER	CAN CAN IN MINIMUM OW LGE OW FLOW CDS CDS		3.79  78 0.47 0.52 8.7 1.9 0.74	Dec 1 Nov 2 Nov 1	1	0.29 212 6.74	May : Pp 4-7,9,1 Sep : May : May : everal Day:	0 4 9	5.45 9.20 2.61 208 0.29 Se 0.29 583 <sup>a</sup> 9.31 0.29 Se 13 1.6 0.64	Sep 4	0 2002 4 2002 7 2000		

e Estimated a From rating extended above 305  $\mathrm{ft^3/s.}$ 

# 07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO--Continued (Metropolitan Sewer District)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

DATE  OCT	TIME  1403 1320 0856 1715 1716	SAMPLE TYPE ENVIRONM ENVIRONM ENVIRONM REPLICAT	IENTAL IENTAL IENTAL IENTAL	DIS- CHARGE, INST. (cubic feet per second) (00061) 25 1.2	OXYGEN, DIS- SOLVED (mg/L) (00300) 7.6 10.5 9.7	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301) 76 98 88 96	pH WATER WHOLE FIELD (stand- ard units) (00400) 7.4 7.1 7.2	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095) 361 607 401 523	TEMPER- ATURE WATER (deg C) (00010) 13.8 11.8 10.8	HARD-NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900) 83 240 170 250 250	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)  26.6 73.0 53.0 83.0 83.0	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925) 4.11 13.9 8.40 11.0	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  29 177 133 200
06	1215	ENVIRONM	IENTAL	.53	9.1	98	7.7	599	18.3	240	73.0	13.0	205
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 24	29	35	0		244	E1.5	.08	.650	<.01	.310	E.49	2.1	14
DEC 11	178	217	0	47.9	E3	<.20	.03	2.80	<.01	E.220	E.19	27	11
FEB 05	132	162	0	27.0	4	<.20	<.01	1.50	<.01	.100	.10	16	<5
MAY 29	200	245	0		3	<.20	<.01	1.30	<.01	.090	.07	22	6
29 AUG					4	<.20	<.01	1.20	<.01	.080	.12		7
06	206	252	0		3	.20	<.01	2.40	<.01	.220	.21	7.9	7
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
DATE  OCT 24	MTEC MF WATER (col./ 100 mL)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL)	STREP, KF STRP MF, WATER (col./ 100 mL)	INUM, DIS- SOLVED (µg/L as Al)	DIS- SOLVED (µg/L as As)	LIUM, DIS- SOLVED (µg/L as Be)	DIS- SOLVED (µg/L as Cd)	MIUM, DIS- SOLVED (µg/L as Cr)	DIS- SOLVED (µg/L as Cu)	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	NESE, DIS- SOLVED (μg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)
OCT	MTEC MF WATER (col./ 100 mL) (31633)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	INUM, DIS- SOLVED (µg/L as A1) (01106)	DIS- SOLVED (µg/L as As) (01000)	LIUM, DIS- SOLVED (µg/L as Be) (01010)	DIS- SOLVED (µg/L as Cd) (01025)	MIUM, DIS- SOLVED (µg/L as Cr) (01030)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 24 DEC 11 FEB 05	MTEC MF WATER (col./ 100 mL) (31633)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	INUM, DIS- SOLVED (µg/L as A1) (01106)	DIS- SOLVED (µg/L as As) (01000)	LIUM, DIS- SOLVED (µg/L as Be) (01010)	DIS- SOLVED (µg/L as Cd) (01025)	MIUM, DIS- SOLVED (µg/L as Cr) (01030)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 24 DEC 11 FEB 05 MAY 29	MTEC MF WATER (col./ 100 mL) (31633) 26000 84 K13 380	FORM, FECAL, 0.7 0.7 µm-MF (col./100 mL) (31625) 30000 224 K56 K300	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 11400 160 K91 475	INUM, DIS- SOLVED (µg/L as Al) (01106)  256  12  15	DIS- SODIVED (µg/L as As) (01000) <1 <1 <1	LIUM, DIS- SOLVED (µg/L as Be) (01010) <1 1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0 <1.0	MIUM, DIS- SOLVED (µg/L as Cr) (01030) 1.0 	DIS- SOLVED (µg/L as Cu) (01040) 2.9 1.8 <1.0	DIS- SOLVED (µg/L as Fe) (01046) 262 15 13	DIS- SOLVED (µg/L as Pb) (01049) 2 <1 <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056) 95 20 5	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.1 <.1 <.1 <.1
OCT 24 DEC 11 FEB 05 MAY 29 29	MTEC MF WATER (col./ 100 mL) (31633) 26000 84 K13 380 360	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)  30000 224 K56 K300 K300	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 11400 160 K91 475 465	INUM, DIS- SOLVED (µg/L as A1) (01106) 256 12 15	DIS- SOLVED (µg/L as As) (01000) <1 <1 <1 <1 <1	LIUM, DIS- SOLVED (µg/L as Be) (01010) <1 1 <1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 <1.0 <1.0	MIUM, DIS- SOLVED (µg/L as Cr) (01030) 1.0 	DIS- SOLVED (µg/L as Cu) (01040) 2.9 1.8 <1.0 <1.0	DIS- SOLVED (µg/L as Fe) (01046) 262 15 13 16	DIS- SOLVED (µg/L as Pb) (01049) 2 <1 <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056) 95 20 5	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.1 <.1 <.1 <.1 <.1
OCT 24 DEC 11 FEB 05 MAY 29	MTEC MF WATER (col./ 100 mL) (31633) 26000 84 K13 380	FORM, FECAL, 0.7 0.7 µm-MF (col./100 mL) (31625) 30000 224 K56 K300	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 11400 160 K91 475	INUM, DIS- SOLVED (µg/L as Al) (01106)  256  12  15	DIS- SODIVED (µg/L as As) (01000) <1 <1 <1	LIUM, DIS- SOLVED (µg/L as Be) (01010) <1 1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0 <1.0	MIUM, DIS- SOLVED (µg/L as Cr) (01030) 1.0 	DIS- SOLVED (µg/L as Cu) (01040) 2.9 1.8 <1.0	DIS- SOLVED (µg/L as Fe) (01046) 262 15 13	DIS- SOLVED (µg/L as Pb) (01049) 2 <1 <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056) 95 20 5	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.1 <.1 <.1 <.1
OCT 24 DEC 11 FEB 05 MAY 29 29	MTEC MF WATER (col./ 100 mL) (31633) 26000 84 K13 380 360	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)  30000 224 K56 K300 K300	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 11400 160 K91 475 465	INUM, DIS- SOLVED (µg/L as A1) (01106) 256 12 15	DIS- SOLVED (µg/L as As) (01000) <1 <1 <1 <1 <1	LIUM, DIS- SOLVED (µg/L as Be) (01010) <1 1 <1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 	MIUM, DIS- SOLVED (µg/L as Cr) (01030) 1.0 	DIS- SOLVED (µg/L as Cu) (01040) 2.9 1.8 <1.0 <1.0	DIS- SOLVED (µg/L as Fe) (01046) 262 15 13 16	DIS- SOLVED (µg/L as Pb) (01049) 2 <1 <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056) 95 20 5	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.1 <.1 <.1 <.1 <.1
OCT 24 DEC 11 FEB 05 MAY 29 29 AUG 06	MTEC MF WATER (col./100 mL) (31633)  26000  84  K13  380  360  3200  NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	FORM, FECAL, 0.7 pm-MF (col./100 mL) (31625)  30000 224 K56 K300 K300 3200  SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 11400 160 K91 475 465 12600 SILVER, DIS- SOLVED (µg/L as Ag) (01075)	INUM, DIS- SOLVED (µg/L as Al) (01106)  256  12  15  21  <3  ZINC, DIS- SOLVED (µg/L as Zn) (01090)	DIS- SOLVED (µg/L as As) (01000) <1 <1 <1 <1 <1 <1 <1 CIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1 <1 <1 (1 <1 (1) <1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 (1.0)	MIUM, DIS- SOLVED (μg/L as Cr) (01030) 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 (1.0) (1.0) (1.0) (1.0) (1.0) (1.0) (1.0)	DIS- SOLVED (µg/L as Cu) (01040)  2.9  1.8 <1.0 <1.0 <1.0 1.0  2,4-DI-METHYL-PHENOL TOTPAL (µg/L) (34606)	DIS- SOLVED (µg/L) as Fe) (01046) 262 15 13 16 16 4 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L as Pb) (01049) 2 <1 <1 <1 <1 <1 <1 VI PHENOL TOTAL (µg/L) (34616)	NESE, DIS- SOLVVED (µg/L as Mn) (01056) 95 20 5 12 12 18 2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.1 <.1 <.1 <.1 <.1 <.1 (.1) <.1 (.1) (.1) (.1) (.1) (.1) (.1) (.1) (.
OCT 24 DEC 11 FEB 05 MAY 29 29 AUG 06  DATE	MTEC MF WATER (col./100 mL) (31633)  26000  84  K13  380  360  3200  NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	FORM, FECAL, 0.7 pm-MF (col./ 100 mL) (31625)  30000 224 K56 K300 K300 3200  SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 11400 160 K91 475 465 12600 SILVER, DIS- SOLVED (µg/L as Ag) (01075)	INUM, DIS-SOLVED (µg/L as A1) (01106)  256  12  15  21  21  23  ZINC, DIS-SOLVED (µg/L as Zn) (01090)	DIS- SOLVED (µg/L as As) (01000) <1 <1 <1 <1 <1 <1 <1 <1 OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1 <1 <1 (1) <1 (1) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (µg/L) as Cd) (01025) 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	MIUM, DIS- SOLVED (μg/L as Cr) (01030) 1.0 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0	DIS- SOLVED (µg/L as Cu) (01040)  2.9  1.8  <1.0 <1.0 <1.0  1.0  1.0  2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)  <3.0	DIS- SOLVED (µg/L) as Fe) (01046) 262 15 13 16 16 4 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L) as Pb) (01049) 2 <1 <1 <1 <1 <1 <1 <1 (1 <1 (1) (1) (2) (4) (1) (1) (1) (2) (4) (1) (4) (5) (6) (7) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9	NESE, DIS- SOLVED (µg/L as Mn) (01056) 95 20 5 12 12 18 2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.
OCT 24 DEC 11 FEB 05 MAY 29 29 AUG 06  DATE  OCT 24 DEC 11 FEB	MTEC MF WATER (col./100 mL) (31633)  26000  84  K13  380  360  3200  NICKEL, DIS- SOLVED (µg/L as Ni) (01065)  1.6  1.1	FORM, FECAL, 0.7 pm-MF (col./ 100 mL) (31625)  30000 224 K56 K300 K300 3200  SELLE-NIUM, DIS-SOLVED (µg/L as Se) (01145)  <1 <1	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 11400 160 K91 475 465 12600 SILVER, DIS- SOLVED (µg/L as Ag) (01075) <1.0	INUM, DIS- SOLVED (µg/L as Al) (01106)  256  12  15  21  21  23  ZINC, DIS- SOLVED (µg/L as Zn) (01090)  70  51	DIS- SOLVED (µg/L as As) (01000) <1 <1 <1 <1 <1 <1 <1 METALE (mg/L) (00556)	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1 <1 <1 (1) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	MIUM, DIS- SOLVED (μg/L as Cr) (01030) 1.0 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0	DIS- SOLVED (µg/L as Cu) (01040)  2.9  1.8  <1.0 <1.0 <1.0  1.0  2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)  <3.0	DIS- SOLVED (µg/L as Fe) (01046) 262 15 13 16 16 16 4 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L as Pb) (01049) 2 <1 <1 <1 <1 <1 <1 (1 <1 (1) (1) (2) (34616) <20	NESE, DIS- SOLVVED (μg/L as Mn) (01056) 95 20 5 12 12 18 2,4-DI- NITRO- TOLUENE TOTAL (μg/L) (34611)	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.1 <.1 <.1 <.1 <.1 <.1 (.1) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1
OCT 24 DEC 11 FEB 05 MAY 29 AUG 06  DATE  OCT 24 DEC 11 FEB 05 MAY	MTEC MF WATER (col./100 mL) (31633)  26000  84  K13  380  360  3200  NICKEL, DIS-SOLVED (µg/L as Ni) (01065)  1.6  1.1  <1.0	FORM, FECAL, 0.7 pm-MF (col./ 100 mL) (31625)  30000 224 K56 K300 K300  3200 SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)  <1 <1 <1	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 11400 160 K91 475 465 12600 SILVER, DIS- SOLVED (µg/L as Ag) (01075) <1.0 <1.0	INUM, DIS- SOLVED (µg/L as Al) (01106)  256  12  15  21  21  <3  ZINC, DIS- SOLVED (µg/L as Zn) (01090)  70  51  3	DIS- SOLVED (μg/L as As) (01000) <1 <1 <1 <1 <1 <1 <1 OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1 <1 <1 (1) <1 (1) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	MIUM, DIS- SOLVED (μg/L as Cr) (01030) 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0	DIS- SOLVED (µg/L as Cu) (01040)  2.9  1.8 <1.0 <1.0 <1.0 1.0  1.0  2,4-DI-METHYL-PHENOL (µg/L) (34606)  <3.0	DIS- SOLVED (µg/L) as Fe) (01046) 262 15 13 16 16 4 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L as Pb) (01049)  2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	NESE, DIS- SOLVVED (µg/L as Mn) (01056)  95 20 5 12 12 18  2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)  <3	TOTAL RECOV-ERABLE (µg/L) as Hg) (71900)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.
OCT 24 DEC 11 FEB 05 MAY 29 AUG 06  DATE  OCT 24 DEC 11 FEB 05	MTEC MF WATER (col./100 mL) (31633)  26000  84  K13  380  360  3200  NICKEL, DIS- SOLVED (µg/L as Ni) (01065)  1.6  1.1	FORM, FECAL, 0.7 pm-MF (col./ 100 mL) (31625)  30000 224 K56 K300 K300 3200  SELLE-NIUM, DIS-SOLVED (µg/L as Se) (01145)  <1 <1	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 11400 160 K91 475 465 12600 SILVER, DIS- SOLVED (µg/L as Ag) (01075) <1.0	INUM, DIS- SOLVED (µg/L as Al) (01106)  256  12  15  21  21  23  ZINC, DIS- SOLVED (µg/L as Zn) (01090)  70  51	DIS- SOLVED (µg/L as As) (01000) <1 <1 <1 <1 <1 <1 <1 METALE (mg/L) (00556)	LIUM, DIS- SOLVED (µg/L as Be) (01010)  <1 1 <1 <1 <1 <1 <1 <1 <1 (1) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (µg/L as Cd) (01025) 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	MIUM, DIS- SOLVED (μg/L as Cr) (01030) 1.0 1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0	DIS- SOLVED (µg/L as Cu) (01040)  2.9  1.8  <1.0 <1.0 <1.0  1.0  2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)  <3.0	DIS- SOLVED (µg/L as Fe) (01046) 262 15 13 16 16 16 4 2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	DIS- SOLVED (µg/L as Pb) (01049) 2 <1 <1 <1 <1 <1 <1 (1 <1 (1) (1) (2) (34616) <20	NESE, DIS- SOLVVED (μg/L as Mn) (01056) 95 20 5 12 12 18 2,4-DI- NITRO- TOLUENE TOTAL (μg/L) (34611)	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.1 <.1 <.1 <.1 <.1 <.1 (.1) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1

# 07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO--Continued (Metropolitan Sewer District)

DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (μg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 24	<2	<2	М	<3	<3	<2	<2	<3	<2	<2	<.01	<2	<2
DEC 11													
FEB 05													
MAY 29													
29 AUG													
06													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZO- [A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLIRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 24	<40	М	М	М	М	М	<3	<2	<2	<19	<.02	<.1	<.01
DEC 11													
FEB 05													
MAY 29 29													
AUG 06													
00													
DATE	CHRY- SENE TOTAL (µg/L)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER	DEF TOTAL	DI- AZINON,	DI- ELDRIN	DIETHYL PHTHAL- ATE TOTAL	DI- METHYL PHTHAL- ATE	DI-N- BUTYL PHTHAL- ATE	DI-N- OCTYL PHTHAL- ATE	DISUL- FOTON UNFILT	ENDO- SULFAN I	ENDRIN WATER	ETHION,
	(34320)	(μg/L) (34386)	(μg/L) (39040)	TOTAL (µg/L) (39570)	TOTAL (µg/L) (39380)	(µg/L) (34336)	TOTAL (µg/L) (34341)	TOTAL (µg/L) (39110)	TOTAL (µg/L) (34596)	RECOVER (µg/L) (39011)	TOTAL (µg/L) (39388)	UNFLTRD REC (µg/L) (39390)	TOTAL (µg/L) (39398)
OCT 24	(34320) M		$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$	TOTAL (µg/L)	TOTAL (µg/L)	RECOVER (µg/L)	TOTAL (µg/L)	REC (µg/L)	TOTAL (µg/L)
		(34386)	(µg/L) (39040)	(μg/L) (39570)	(µg/L) (39380)	(µg/L) (34336)	(μg/L) (34341)	TOTAL (µg/L) (39110)	TOTAL (µg/L) (34596)	RECOVER (µg/L) (39011)	TOTAL (µg/L) (39388)	REC (µg/L) (39390)	TOTAL (µg/L) (39398)
24 DEC 11 FEB 05		(34386)	(µg/L) (39040)	(μg/L) (39570)	(µg/L) (39380)	(µg/L) (34336)	(μg/L) (34341)	TOTAL (µg/L) (39110)	TOTAL (µg/L) (34596)	RECOVER (µg/L) (39011)	TOTAL (µg/L) (39388)	REC (µg/L) (39390)	TOTAL (µg/L) (39398)
24 DEC 11 FEB 05 MAY 29		(34386)	(µg/L) (39040) <.02	(µg/L) (39570) <.02	(µg/L) (39380) <.006	(µg/L) (34336) M 	(µg/L) (34341) M 	TOTAL (µg/L) (39110)	TOTAL (µg/L) (34596)	RECOVER (µg/L) (39011)	TOTAL (µg/L) (39388) <.02	REC (µg/L) (39390)	TOTAL (µg/L) (39398) <.01
24 DEC 11 FEB 05 MAY 29 AUG		(34386) <2  	(µg/L) (39040) <.02	(µg/L) (39570) <.02	(µg/L) (39380) <.006 	(µg/L) (34336) M 	(µg/L) (34341) M 	TOTAL (µg/L) (39110)	TOTAL (µg/L) (34596) <5	RECOVER (µg/L) (39011) <.10 	TOTAL (µg/L) (39388) <.02	REC (µg/L) (39390)	TOTAL (µg/L) (39398) <.01
24 DEC 11 FEB 05 MAY 29 29		(34386) <2  	(µg/L) (39040) <.02	(µg/L) (39570) <.02	(µg/L) (39380) <.006 	(µg/L) (34336) M 	(µg/L) (34341) M 	TOTAL (µg/L) (39110)	TOTAL (µg/L) (34596) <5	RECOVER (µg/L) (39011) <.10 	TOTAL (µg/L) (39388) <.02	REC (µg/L) (39390)	TOTAL (µg/L) (39398) <.01
24 DEC 11 FEB 05 MAY 29 AUG		(34386) <2  	(µg/L) (39040) <.02  	(µg/L) (39570) <.02	(µg/L) (39380) <.006 	(μg/L) (34336) M  	(µg/L) (34341) M  	TOTAL (µg/L) (39110)	TOTAL (µg/L) (34596) <5	RECOVER (µg/L) (39011) <.10 	TOTAL (µg/L) (39388) <.02	REC (µg/L) (39390)	TOTAL (µg/L) (39398) <.01
24 DEC 11 FEB 05 MAY 29 29 AUG 06	M FLUOR- ANTHENE TOTAL (µg/L) (34376)	(34386)  <2       FLUOR-  ENE  TOTAL (µg/L) (34381)	(µg/L) (39040) <.02    FONOFOS (DY- FONATE) WATER WHOLE TOT. REC (µg/L) (82614)	(µg/L) (39570) <.02      HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	(µg/L) (39380) <.006      HEPTA- CHLOR, TOTAL (µg/L) (39410)	(µg/L) (34336) М ————————————————————————————————————	(µg/L) (34341)  M INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	TOTAL (µg/L) (39110)  M USO- PHORONE TOTAL (µg/L) (34408)	TOTAL (µg/L) (34596)  <5 LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (J89530)	TOTAL (µg/L) (39388)  <.02 METH- OXY- CHLOR, TOTAL (µg/L) (39480)	REC (µg/L) (39390)  <.01 METHYL PARA- THION, TOTAL (µg/L) (39600)	TOTAL (µg/L) (39398)  <.01 (µg/L) (39398)
24 DEC 11 FEB 05 MAY 29 29 AUG 06  DATE	M FLUOR- ANTHENE TOTAL (µg/L)	(34386)  <2       FLUOR-  ENE  TOTAL (µg/L)	(µg/L) (39040) <.02     FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	(µg/L) (39570)  <.02  HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)  <.009	(µg/L) (39380) <.006       HEPTA- CHLOR, TOTAL (µg/L) (39410) <.01	(µg/L) (34336)  M	(µg/L) (34341)  M INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	TOTAL (µg/L) (39110)  M	TOTAL (µg/L) (34596)  <5 LINDANE TOTAL (µg/L) (39340)  <.006	RECOVER (µg/L) (39011)  <.10  MALA-THION, TOTAL (µg/L) (39530)  <.01	TOTAL (µg/L) (39388)  <.02 METH- OXY- CHLOR, TOTAL (µg/L) (39480)  <.020	REC (µg/L) (39390)  <.01	TOTAL (µg/L) (39398)  <.01 (µg/L) (39398)  <.01
24 DEC 11 FEB 05 MAY 29 29 AUG 06  DATE   OCT 24 DEC 11 FEB	M FLUOR- ANTHENE TOTAL (µg/L) (34376)	(34386)  <2  FLUOR- ENE TOTAL (µg/L) (34381)  <2	(µg/L) (39040) <.02    FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	(µg/L) (39570) <.02      HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420) <.009	(µg/L) (39380) <.006      HEPTA- CHLOR, TOTAL (µg/L) (39410) <.01	(µg/L) (34336) M     HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	(µg/L) (34341)  M INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)  M	TOTAL (µg/L) (39110)  M ISO- PHORONE TOTAL (µg/L) (34408)  M	TOTAL (µg/L) (34596)  <5  LINDANE TOTAL (µg/L) (39340)  <.006	MALA- THION, TOTAL (J89530)	TOTAL (µg/L) (39388)  <.02 METH- OXY- CHLOR, TOTAL (µg/L) (39480)  <.020	REC (µg/L) (39390)  <.01 METHYL PARA- THION, TOTAL (µg/L) (39600)  <.01	TOTAL (µg/L) (39398)  <.01  MIREX, TOTAL (µg/L) (39755)  <.006
24 DEC 11 FEB 05 MAY 29 29 AUG 06  DATE  OCT 24 DEC 11 FEB 05 MAY	M FLUOR- ANTHENE TOTAL (µg/L) (34376)	(34386)  <2       FLUOR-  ENE  TOTAL (µg/L) (34381)	(μg/L) (39040)  <.02  FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (μg/L) (82614)  <.01	(µg/L) (39570) <.02    HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420) <.009	(µg/L) (39380) <.006      HEPTA- CHLOR, TOTAL (µg/L) (39410) <.01	(µg/L) (34336) М —— —— —— —— —— —— —— —— —— —— —— —— ——	(µg/L) (34341)  M  INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)  M	TOTAL (µg/L) (39110)  M	TOTAL (µg/L) (34596)  <5	RECOVER (µg/L) (39011)  <.10  MALA-THION, TOTAL (µg/L) (39530)  <.01	TOTAL (µg/L) (39388)  <.02 METH- OXY- CHLOR, TOTAL (µg/L) (39480)  <.020	REC (µg/L) (39390)  <.01  METHYL PARA- THION, TOTAL (µg/L) (39600)  <.01	TOTAL (µg/L) (39398)  <.01
24 DEC 11 FEB 05 MAY 29 AUG 06  DATE   CCT 24 DEC 11 FEB 05	M FLUOR- ANTHENE TOTAL (µg/L) (34376)	(34386)  <2  FLUOR- ENE TOTAL (µg/L) (34381)  <2	(µg/L) (39040) <.02    FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	(µg/L) (39570) <.02      HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420) <.009	(µg/L) (39380) <.006      HEPTA- CHLOR, TOTAL (µg/L) (39410) <.01	(µg/L) (34336) M     HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	(µg/L) (34341)  M INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)  M	TOTAL (µg/L) (39110)  M ISO- PHORONE TOTAL (µg/L) (34408)  M	TOTAL (µg/L) (34596)  <5  LINDANE TOTAL (µg/L) (39340)  <.006	RECOVER (µg/L) (39011)  <.10  MALA-THION, TOTAL (µg/L) (39530)  <.01	TOTAL (µg/L) (39388)  <.02 METH- OXY- CHLOR, TOTAL (µg/L) (39480)  <.020	REC (µg/L) (39390)  <.01 METHYL PARA- THION, TOTAL (µg/L) (39600)  <.01	TOTAL (µg/L) (39398)  <.01  MIREX, TOTAL (µg/L) (39755)  <.006

## 07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO--Continued (Metropolitan Sewer District)

DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 24 DEC	<4	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
11													
FEB 05 MAY													
29													
29 AUG													
06													
	DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX- APHENE, TOTAL (µg/L) (39400)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34536)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (µg/L) (34396)	HEXA- CHLORO- BUT- ADIENE TOTAL (µg/L) (39702)	NAPHTH- ALENE TOTAL (µg/L) (34696)		
	OCT 24 DEC	<.02	М	<1	<2	<2	<2	<2	<2	<3	<5		
	11												
	FEB 05 MAY												
	29												
	29 AUG 06												

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 07019120 FISHPOT CREEK AT VALLEY PARK, MO

LOCATION.--Lat 38°33'07", long 90°30'41", in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.13, T.44 N., R.4 E., St. Louis County, Hydrologic Unit 07140102, on right downstream abutment of Hanna Road bridge, 4.4 mi west of Interstate 270, 1.0 mi north of Interstate 44, and 1.7 mi upstream of confluence of Meramec River.

DRAINAGE AREA.--9.58 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 422.02 ft above National Geodetic Vertical Datum of 1929. Prior to July 1996, at datum 420.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for estimated daily discharges and those above 2,000  $\mathrm{ft}^3/\mathrm{s}$ , which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 11, 1979 reached a stage of 12.00 ft, former datum, discharge 6,200 ft<sup>3</sup>/s.

		DISCHA	RGE, CUB	IC FEET PER	SECOND,	WATER Y	EAR OCTOBER	R 2001 TO	SEPTEMBE	R 2002	5	,
						Y MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 16	0.11 0.19 0.11 0.06 0.04		e0.15 e0.14 e0.13 e0.12 e0.11	0.97 0.74	0.22 32 e16 e0.90 0.65	0.50 0.48 0.48 0.48 0.44	0.38 0.27 0.22 0.18 0.15	0.28 0.28 0.28 0.36 4.9	0.00 0.00 33 1.0 0.32	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.35 0.18 0.12 0.09 98	0.04 0.12 0.22 0.15 0.13	0.21 0.18 0.15 0.15 0.13	e0.10 e0.09 e0.09 e0.08 e0.08	0.61 0.54 0.45 0.39 0.45	0.54 0.45 0.41 39 1.1	0.37 0.35 19 0.61 0.39	2.8 120 130 130 1.8	0.39 0.27 0.24 0.34 3.5	0.24 0.19 0.14 0.09 0.08	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11 12 13 14 15	72 11 0.99 0.50 23	0.10 0.08 0.06 0.04 0.03	0.11 18 2.7 25 0.97	0.07 0.07 0.06 0.06 0.05		0.70 0.55 0.50 0.48	0.28 0.35 0.24 0.24	1.1 53 148 2.2 1.5	81 288 2.3 1.2 0.82	0.08 0.05 0.02 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
16 17 18 19 20	8.1 0.26 0.18 0.16 0.13	0.02 0.01 0.01 0.03 0.02	142 91 2.8 1.6 1.1	0.05 0.04 0.04 0.12 0.12	0.37 0.37 0.33 5.6 0.97	2.0 0.83 0.65 6.8 2.6	0.18 0.19 0.16 8.3	8.8 81 4.1 1.4 0.99	0.64 0.49 0.39 0.30 0.25	0.00 0.00 0.00 0.00 0.00	0.00 0.00 13 0.17 0.10	0.00 0.02 0.12 38 2.0
21 22 23 24 25	0.11 0.16 0.27 23 0.42	0.00 0.00 0.00 144 0.65	0.78 0.81 0.64 0.46 0.38	0.08 0.06 0.11 0.27 0.13	0.51 0.38 0.33 0.32 0.28	0.84 0.65 0.61 0.62	13 0.72 0.36 21 0.92	0.71 0.57 0.50 0.48 0.39	0.19 0.14 0.08 0.05 0.03	0.00 0.00 0.00 0.00 0.00	0.07 0.04 0.04 0.04 0.01	0.08 0.05 0.04 0.03 0.03
27 28	0.28 0.25 0.21 0.17 0.15 0.13	0.46 0.27 10 15 34	0.32 0.27 0.22 e0.20 e0.18 e0.16	0.09 0.08 0.07 0.16 96 199	0.32 0.28 0.25 	3.7 1.3 0.81 0.68 0.62 0.62	0.34 54 16 0.78 0.51	0.37 0.37 0.36 0.33 0.31 0.29	0.02 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.02 0.01 0.00 0.00 0.00
MEAN MAX MIN IN.	8.26 98 0.00 0.99	6.86 144 0.00 0.80	9.44 142 0.11 1.14	9.61 199 0.04 1.16	1.00 7.6 0.25 0.11	6.45 66 0.22 0.78	5.30 54 0.16 0.62	22.3 148 0.15 2.69	12.9 288 0.00 1.50	1.14 33 0.00 0.14	0.44 13 0.00 0.05	1.35 38 0.00 0.16
STATIST	TICS OF M	ONTHLY ME	AN DATA	FOR WATER Y	EARS 199	6 - 2002	, BY WATER	YEAR (W	()			
MEAN MAX (WY) MIN (WY)	2.67 8.26 2002 0.42 1999	5.78 20.9 1997 0.17 2000	2.29 9.44 2002 0.16 1999	5.60 9.61 2002 0.22 2000	12.1 19.0 2000 1.00 2002	6.66 21.5 1998 0.78 2000	3.97 6.23 1998 0.26 2000	11.4 28.2 2000 1.48 1997	13.0 31.5 2000 0.80 1999	3.87 12.5 1998 0.83 1997	2.20 4.95 1998 0.09 2001	3.27 16.3 1996 0.07 1999
SUMMARY	STATIST	CICS	F	OR 2001 CAL	ENDAR YE	AR	FOR 2002	WATER Y	EAR	WATER YE	ARS 1996	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANTI ANNUAL 10 PERC 50 PERC	C ANNUAL	MEAN MEAN MAN MINIMUM MOW MAGE MOW FLOW INCHES) MEDS MEDS		5.01 149 0.00 0.00  7.10 8.3 0.14 0.00	Feb: Many Day At Time	24 ys es	7.14 288 0.00 0.00 3810 <sup>8</sup> 8.73 0.00 10.13 12 0.24 0.00	Jun Many Da At Tir Jun Jun Many Da	12 ays nes 12 12 12 ays	5.86 7.88 3.38 710 0.00 5.320 <sup>a</sup> 10.08 0.00 8.30 5.2 0.22 0.22	Jun : Man A Jun : Jun : Man	1998 2001 24 2000 y Years t Times 24 2000 24 2000 y Years

e Estimated  $^{\rm a}$  From rating extended above 995  ${\rm ft^3/s.}$ 

# 07019120 FISHPOT CREEK AT VALLEY PARK, MO--Continued (Metropolitan Sewer District)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

DATE	TIME	SAMPLE TYPE	:	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 10	0715	ENVIRONM	IENTAL	808	7.5	80	8.0	124	16.9	45	14.5	2.25	51
DEC 11	1055	ENVIRONM	IENTAL	.10	6.1	51	6.9	562	7.3	210	67.8	10.4	155
FEB 05	1250	ENVIRONM	IENTAL	.79	12.3	95	7.1	614	4.4	200	64.0	10.0	146
MAR 09	0426	ENVIRONM	IENTAL	89	9.2	88	7.6	1040	12.1	150	47.0	7.30	73
MAY 29	1055	ENVIRONM	IENTAL	.32	4.9	55	7.3	644	19.5	230	73.0	11.0	165
AUG 06	0900	ENVIRONM	IENTAL	e.01	2.6	32	7.1	657	26.1	210	66.0	9.80	198
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 10 DEC	44	E53	0		2160	E3.6	.04	.580	.01	.290	1.20	1.1	19
11 FEB	157	192	0	46.2	<1	<.20	.03	.400	<.01	.140	E.13	40	12
05 MAR	146	178	0	72.0	<1	.30	<.01	1.40	<.01	.110	.12	25	8
09 MAY	73	89	0		594	2.0	.11	.740	.03	.170	.60	3.6	25
29 AUG	170	207	0		4	<.20	.04	.300	<.01	.120	.13	16	6
06	200	244	0		5	.30	.02	.020	<.01	.100	.15	29	10
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 10	40000	60000	39200	1060	2	<1	1.0	1.0	2.5	997	2	52	.1
DEC 11	K20	K53	K48	<3	<1	1	1.0	1.0	1.0	45	<1	97	<.1
FEB 05	K5	K10	250	27	1	<1	<1.0	<1.0	1.0	26	<1	30	<.1
MAR 09	4800	9000	11600	274	2	<1	<1.0	2.6	2.3	170	<1	50	<.1
MAY 29	25	33	72	6	<1	<1	<1.0	<1.0	1.1	14	<1	153	<.1
AUG 06	К7	K60	164	<3	1	<1	<1.0	<1.0	<1.0	4	<1	800	<.1

# 07019120 FISHPOT CREEK AT VALLEY PARK, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 10	1.5	<1	<1.0	34	<7	М	<2	<3	<3.0	<3	E2	<3	<2
DEC 11	<1.0	1	<1.0	56									
FEB 05	<1.0	<1	<1.0	22									
MAR 09	2.4	<1	<1.0	95	<7	М	<2	<3	<.7	<3	<3	<3	<2
MAY 29	1.4	<1	<1.0	160									
AUG 06	2.3	<1	<1.0	<2									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLITED RECOVER (µg/L) (34447)
OCT 10	<2	<2	<3	<3	<3	<2	<2	E1	М	М	<.01	М	<2
DEC 11													
FEB 05													
MAR 09	<2	<2	<1	<5	<3	<2	<2	<3	М	М	<.01	М	<2
MAY 29													
AUG 06													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZO- [A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLIRD (µg/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
ОСТ 10	DINE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	[A]- ANTHRA- CENE WAT UNF (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L)	CHLORO- ETHOXY) METHANE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L)	PHENO- THION WATER UNFLTRD (µg/L)	DANE, TECH- NICAL TOTAL (µg/L)	PYRIFOS TOTAL RECOVER (µg/L)
OCT 10 DEC 11	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10 DEC 11 FEB 05	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 10 DEC 11 FEB 05 MAR 09	DINE TOTAL (µg/L) (39120) <40	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYLL) ETHER UNFLIRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 10 DEC 11 FEB 05 MAR 09 MAY 29	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230) M	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) <19	PHENO- THION WATER UNFLIRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 10 DEC 11 FEB 05 MAR 09	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230) M	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) <19	PHENO- THION WATER UNFLIRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 10 DEC 11 FEB 05 MAR 09 MAY 29	DINE TOTAL (µg/L) (39120) <40 	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230) M	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) <19	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02  <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M DEF TOTAL (µg/L) (134230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M  M  AZINON, TOTAL (µg/L) (39570)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380)	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <methyl (34341)<="" (µg="" l)="" phthal-ate="" td="" total=""><td>CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2  &lt;2    DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  &lt;196 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)</td><td>PHENO-THION WATER UNFLTRD (µg/L) (39786)  &lt;.02 &lt;.02 &lt;.02  ENDO-SULFAN I TOTAL (µg/L) (39388)</td><td>DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1  ENDRIN WATER UNFLIRD (µg/L) (39390)</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)  &lt;.01</td></methyl>	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2  <2    DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <196 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO-THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02 <.02  ENDO-SULFAN I TOTAL (µg/L) (39388)	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1  ENDRIN WATER UNFLIRD (µg/L) (39390)	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01
OCT 10 DEC 11 FEB 05 MAR 09 AUG 06  DATE  OCT 10 DEC	DINE TOTAL (µg/L) (39120)  <40 <40  CHRY- SENE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M DEF TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M AZINON, TOTAL (µg/L)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M M DIETHYL PHTHAL- ATE TOTAL (µg/L)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <methyl (µg="" l)<="" phthal-ate="" td="" total=""><td>CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2 &lt;2 &lt;2 DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L)</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL ((µg/L)) (39100)  &lt;19 &lt;6 DISUL- FOTON UNFILT RECOVER ((µg/L))</td><td>PHENO-THION WATER UNFLTRD (µg/L) (39786)  &lt;.02</td><td>DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1 ENDRIN WATER UNFLIRD REC (µg/L)</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)   &lt;.01 &lt;.01  ETHION, TOTAL (µg/L) (µg/L)</td></methyl>	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL ((µg/L)) (39100)  <19 <6 DISUL- FOTON UNFILT RECOVER ((µg/L))	PHENO-THION WATER UNFLTRD (µg/L) (39786)  <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L)	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01 <.01  ETHION, TOTAL (µg/L) (µg/L)
OCT	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M DEF TOTAL (µg/L) (39040)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M M AZINON, TOTAL (µg/L) (39570)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <methyl (34341)<="" (µg="" l)="" phthal-ate="" td="" total=""><td>CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2 &lt;2 S2 BUT-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  &lt;196 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)</td><td>PHENO- THION WATER UNFLTRD (µg/L) (39786)  &lt;.02 &lt;.02 &lt;.02  ENDO- SULFAN I TOTAL (µg/L) (39388)  &lt;.02</td><td>DANE, TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  &lt;.01</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)   &lt;.01 &lt;.01   ETHION, TOTAL (µg/L) (39398)   &lt;.01</td></methyl>	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 S2 BUT-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <196 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02 <.02  ENDO- SULFAN I TOTAL (µg/L) (39388)  <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01 <.01   ETHION, TOTAL (µg/L) (39398)   <.01
OCT	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)	A- PYRENE TOTAL (µg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M DEF TOTAL (µg/L) (39040)  E.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M DI- AZINON, TOTAL (µg/L) (39570)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <methyl (34341)="" (µg="" ate="" l)="" m<="" phthal-="" td="" total=""><td>CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2 &lt;2 &lt;2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  &lt;19 &lt;6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  &lt;.10</td><td>PHENO- THION WATER UNFLTRD (µg/L) (39786)   &lt;.02</td><td>DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  &lt;.01</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)   &lt;.01</td></methyl>	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 <6  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01
OCT	DINE TOTAL (µg/L) (39120)  <40 <40 <ho (34320)="" (µg="" l)="" m<="" sene="" td="" total=""><td>A- PYRENE TOTAL (μg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  &lt;2</td><td>FLUOR- AN- THENE TOTAL (μg/L) (34230)  M  M  DEF TOTAL (μg/L) (39040)  E.02</td><td>FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  M AZINON, TOTAL (μg/L) (39570)  .25</td><td>[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M BI- ELDRIN TOTAL (µg/L) (39380)  &lt;.006</td><td>[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M</td><td>CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  &lt;3 &lt;3 &lt;3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M</td><td>CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2 &lt;2 &lt;2 DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)  M</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  &lt;19 &lt;66  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  &lt;.10</td><td>PHENO- THION WATER UNFLTRD (µg/L) (39786)   &lt;.02</td><td>DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  &lt;.01</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)  &lt;.01 &lt;.01 &lt;.01 ETHION, TOTAL (µg/L) (39398)  &lt;.01</td></ho>	A- PYRENE TOTAL (μg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (μg/L) (34230)  M  M  DEF TOTAL (μg/L) (39040)  E.02	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M  M AZINON, TOTAL (μg/L) (39570)  .25	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M BI- ELDRIN TOTAL (µg/L) (39380)  <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 <66  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01 ETHION, TOTAL (µg/L) (39398)  <.01
OCT	DINE TOTAL (µg/L) (39120)  <40 <40 SENE TOTAL (µg/L) (34320)  M M	A- PYRENE TOTAL (μg/L) (34247)  M  M  CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M DEF TOTAL (µg/L) (39040)  E.02 <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M  M  DI- AZINON, TOTAL (µg/L) (39570)  .2503	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M ELDRIN TOTAL (µg/L) (39380) <.006 <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M < < < < < - M < - DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 METHYL PHTHAL- ATE TOTAL (µg/L) (34341)  M M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 SIDI-N-BUTYL PHTHAL ATE TOTAL (µg/L) (39110)  M M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  <19 <66  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <.10	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.02  ENDO- SULFAN I TOTAL (µg/L) (39388)  <.02 <.01	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01 <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01 <.01   ETHION, TOTAL (µg/L) (39398)   <.01 <.01 <.01

## 07019120 FISHPOT CREEK AT VALLEY PARK, MO--Continued (Metropolitan Sewer District)

DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (μg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (μg/L) (39755)
OCT 10	E1	М	<.01	<.009	<.01	<2	E1	М	<.006	<.20	<.020	<.01	<.006
DEC 11													
FEB 05													
MAR 09	М	М	<.01	<.009	<.01	<2	М	М	<.006	E.23	<.015	<.02	<.006
MAY 29													
AUG 06													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 10 DEC	<4	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
11 FEB													
05 MAR													
09	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	М	M	<3.0
MAY 29													
AUG 06													
	DATE	PHOR TOT ( µg ( 390	AL TOT (μ9	'AL TOT (μg	X- CHLO NE, WAT AL RE /L) (µg	4- 1,3- RI- CHLO DRO- WAT UNF UNFI CC RE	·DI- 1,4- DRO- CHLO TER WAT TRD UNFI C RE	-DI- O-D DRO- CHLC PER WAT LTRD UNFL EC RE 1/L) (µg	OI – HEX ORO – CHLO TER WAT TRD UNFL CC RECO /L) (µg.	A- HEX RO- CHLO ER BUT TRD ADIE VER TOT /L) (µg	ORO- '- NAPE 'NE ALE 'AL TOI /L) (µg	NE AL L)	
	OCT 10	<.	02 E1	. <1	<2	2 <2	2 <2	2 <2	<2	<3	, M	I	
	DEC 11	_										_	
	FEB 05	_										_	
	MAR 09	<.	02 M	I <1	<2	2 <2	? <2	2 <2	<2	<1	. M	I	
	MAY 29	-										-	
	AUG 06	-										-	

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

## 07019150 GRAND GLAIZE CREEK NEAR MANCHESTER, MO

LOCATION.--Lat 38°35'33", long 90°29'35", in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  Sec.31, T.45 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, on left downstream abutment of Weidmann Road bridge, 0.15 mi south of Highway 100, 1.1 mi west of Interstate 270, and 6.9 mi upstream of confluence of Meramec River.

DRAINAGE AREA.--5.09 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1997 to current year.

 ${\tt GAGE.--Water-stage}$  recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Records poor.

	1	DISCHAF	GE, CUBIC	C FEET PER		WATER YE Y MEAN VA		R 2001 TO	) SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.11 0.11 0.10 0.10 23	0.24 1.3 0.16 0.13 0.13	2.1 1.3 1.1 0.98 1.1	0.32 0.33 0.40 0.58 0.61	5.4 1.9 1.4 0.97 0.72	0.60 29 3.3 1.8 2.0	1.2 1.6 1.0 0.88 0.88	0.99 0.80 0.69 0.63 0.59	1.0 0.96 0.90 1.7	e0.21 e0.23 22 1.6 0.70	0.47 0.25 0.16 0.13 0.08	0.11 0.09 0.11 0.06 0.10
6 7 8 9 10	0.10		1.4 0.83 0.68 0.63 0.60		0.65 0.55 0.43 0.49 1.6	1.6 1.2 1.2 27 2.2	0.84 1.7 18 2.9 1.4	6.5 78 63 74 5.1	1.5 1.00 0.89 2.0	0.39 0.32 0.36 0.38 1.3	2.8 0.40 0.14 0.12 0.10	0.12 0.08 0.06 0.18 0.11
11 12 13 14 15	41 7.7 2.7 0.22 19	0.15 0.15 0.13 0.14 0.12	0.60 23 4.2 23 4.2	2.5 0.45 0.40 0.42 0.35	0.72 0.57 0.50 0.51 0.57	1.7 1.5 1.2 1.2	1.1 2.1 1.1 1.2 0.84	3.6 44 79 3.9 2.6	e2.8 e0.94 e0.66	0.44 0.68 0.39 0.28 0.25	0.13 0.63 6.9 1.9 0.50	0.06 0.00 0.08 0.15 0.63
16 17 18 19 20	6.2 0.23 0.17 0.19 0.16		88 48 4.1 2.2 1.5	0.36 0.31 0.32 2.8 0.99	0.52	3.1 1.7 1.4 13	0.75 1.8 0.67 11	9.6 45 5.8 2.8 2.1	e0.56 e0.49 e0.46 e0.42 e0.39	6.7 0.91 0.36 0.29 0.29	0.39 0.28 23 1.1 0.90	0.14 11 0.83 32 10
21 22 23 24 25	0.15 5.8			0.81 0.67 2.9 3.1 0.75	1.1 0.78 0.64 0.62 1.7	39	13 1.5 0.75 12 1.3	1.7 1.6 1.4 3.4 1.6	e0.35 e0.31 e0.29 e2.5 e0.70	0.33 1.3 2.6 0.42 0.38	0.30 0.20 1.5 0.49 0.17	0.60 0.19 0.14 0.34 0.13
26 27 28 29 30 31	0.34 0.30 0.27 0.27 0.28 0.25	3.3 1.3 16 22 21	0.74 0.98 0.70 0.59 0.45 0.39	0.59 0.56 0.55 3.2 75 94	1.6 0.74 0.63 	9.8 3.1 2.1 2.0 1.5	0.55 32 7.6 1.2 0.83	1.2 1.1	e0.35 e0.33 e0.31 e0.27 e0.23	0.29 0.19 0.16 0.11 0.31 0.12	0.13 0.13 0.10 0.61 0.41 0.13	0.12 0.14 0.18 0.19 0.19
MEAN MAX MIN	5.96 54 0.10	5.17 85 0.10	7.18 88 0.39	6.45 94 0.31	1.42 11 0.43	5.91 39 0.60	4.62 32 0.55	14.4 79 0.59	9.88 194 0.23	1.43 22 0.11	1.44 23 0.08	1.94 32 0.00
STATIST	rics of Mo	ONTHLY MEA	N DATA FO	OR WATER Y	EARS 199	7 - 2002,	BY WATER	YEAR (W)	()			
MEAN MAX (WY) MIN (WY)	2.92 5.96 2002 1.39 2000	3.26 5.17 2002 1.03 2000	2.52 7.17 2002 0.38 1999	5.74 13.0 1999 0.89 2000	7.73 12.6 1999 1.43 2002	7.87 19.9 1998 2.96 2001	5.72 9.61 1999 2.92 2000	10.5 22.0 2000 3.61 1998	11.2 27.7 2000 2.13 1997	3.56 9.57 1998 0.43 1997	3.00 5.92 1998 0.78 2001	1.74 2.67 1998 0.30 1999
SUMMARY	Y STATIST	ICS	FO	R 2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	EAR	WATER YE	ARS 1997	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERCE 50 PERCE	T ANNUAL M ANNUAL ME T DAILY ME DAILY ME	EAN EAN AN Y MINIMUM DW AGE DW FLOW EDS EDS		4.27  116 0.01 0.09 12 0.40 0.12	Feb : Aug : Aug	24 15 1	194 0.00 0.08 3600 <sup>a</sup> 7.95 0.00 Sep 12 0.74 0.13	Jun Sep Sep Jun Jun o 4,5,11-	12 12 7 12 12 12	5.65 7.66 3.41 562 0.00 0.00 5430 <sup>a</sup> 9.37 0.00 11 0.52 0.13		1998 2001 24 2000 1 Years t Times 24 2000 24 2000 1 Years

e Estimated

From rating extended above 466 ft<sup>3</sup>/s.

### 07019175 SUGAR CREEK AT KIRKWOOD, MO

LOCATION.--Lat 38°34'36", long 90°27'52", in SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.4, T.44 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, gage attached to left upstream abutment of Barrett Station Road bridge, 2.3 mi north of Interstate 44, 1.1 mi west of Interstate 270, and 4.7 mi upstream from confluence of Meramec River.

DRAINAGE AREA. -- 5.08 mi<sup>2</sup>.

PERIOD OF RECORD. -- June 1997 to current year.

 ${\tt GAGE.--Water-stage}$  recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Records poor.

	-	DISCHA	RGE, CUBI	C FEET PER		WATER Y	EAR OCTOBEI	R 2001 TO	) SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.13 0.12 0.12 0.11 8.5	0.30 0.74 0.40 0.33 0.31	1.4 0.78 0.74 0.66 0.67	0.27 0.27 0.27 0.26 0.23	8.5 3.1 1.8 1.1 0.86	5.3 21 5.2 2.2 2.1	0.79 1.2 0.91 1.5	1.7 1.3 1.2 1.3	0.80 0.71 0.71 0.66 4.4	0.21 0.21 0.25 0.24 0.29	0.19 0.21 0.24 0.18 0.24	0.26 0.20 0.17 0.15 0.11
6 7 8 9 10	0.26 0.11 0.11 0.10 52	0.31 0.31 0.33 0.32 0.31	1.1 0.62 0.48 0.46 0.41	0.27 0.26 0.23 0.24 0.22	0.75 0.82 0.75 0.74 0.91	1.7 1.6 2.9 30 2.5	0.73 0.59 9.4 1.8	7.8 93 62 89 6.4	1.6 1.1 0.67 0.76 2.1	0.22 0.19 0.20 0.24 0.32	0.87 0.41 0.34 0.33 0.35	0.18 0.18 0.17 0.14 0.14
11 12 13 14 15	50 5.0 2.6 0.50 9.4	0.34 0.35 0.36 0.35 0.38	0.40 13 3.1 19 2.5	0.23 0.26 0.26 0.29 0.29	0.78 0.66 0.58 0.62 0.48	1.7 1.4 0.95 0.83	0.97 2.1 1.1 1.2 0.90	4.3 24 92 6.1 4.1	86 186 2.3 0.89 0.64	0.37 0.37 0.35 0.26 0.23	0.36 0.40 1.7 0.70 0.59	0.15 0.12 0.10 0.10 0.35
16 17 18 19 20	3.7 0.39 0.24 0.22 0.17	0.37 0.38 0.44 0.66 0.44	67 57 4.7 2.0 1.1	0.30 0.33 0.29 0.41 0.42	0.36 0.24 0.26 8.1 3.7	3.2 1.5 1.0 11 4.6	0.79 0.77 0.68 9.9 8.7	7.2 53 8.3 4.4 3.1	0.54 0.47 0.43 0.39 0.37	0.23 0.28 0.78 0.29 0.21	0.63 0.33 10 1.3 1.7	0.25 6.0 0.77 5.6 6.8
21 22 23 24 25	3.0 16	0.39 0.35 0.31 87 1.1	0.80 1.6 0.70 0.52 0.43	0.48 0.60 1.3 1.8 0.70	1.9 1.4 e0.90 e0.70 e1.2	1.9 1.4 1.1 1.6	12 2.7 1.6 21 3.3	2.4 2.1 2.0 2.3 1.8	0.34 0.31 0.30 2.1 0.65	0.20 0.19 0.44 0.36 0.26	0.53 0.48 0.62 0.63 0.51	0.31 0.18 0.16 0.15 0.13
26 27 28 29 30 31	0.59 0.52 0.47 0.52 0.43 0.36	1.2 0.66 9.9 6.5 18	0.38 0.37 0.36 0.32 0.29	0.56 0.42 0.34 4.8 63	e2.1 e0.80 e0.58	7.1 3.0 2.0 1.5 2.2 0.94	1.8 37 12 3.4 2.3	1.4 1.2 5.3 1.9 1.1 0.90	0.32 0.26 0.27 0.23 0.23	0.25 0.23 0.18 0.14 0.18 0.17	0.42 0.40 0.31 0.30 0.35 0.25	0.14 0.16 0.13 0.15 0.15
MEAN MAX MIN	5.06 52 0.10	4.44 87 0.30	5.91 67 0.27	6.05 108 0.22	1.60 8.5 0.24	5.40 30 0.83	4.77 37 0.59	15.9 93 0.90	9.88 186 0.23	0.27 0.78 0.14	0.83 10 0.18	0.79 6.8 0.10
STATIS	TICS OF MO	ONTHLY ME.	AN DATA F	OR WATER Y	EARS 199	7 - 2002	, BY WATER	YEAR (WY	")			
MEAN MAX (WY) MIN (WY)	2.18 5.06 2002 1.19 1998	2.47 4.44 2002 0.71 2000	2.40 5.91 2002 0.75 2001	4.71 10.1 1999 1.18 2000	6.90 16.2 1999 1.60 2002	6.63 19.4 1998 1.89 2001	4.59 7.97 1998 1.43 2000	9.58 18.7 2000 2.31 1998	11.0 19.2 2000 2.54 1999	3.78 10.6 1998 0.27 2002	2.05 3.64 2000 0.40 2001	0.91 1.51 2001 0.20 1999
SUMMAR	Y STATIST	ICS	FC	R 2001 CAI	LENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 1997 -	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN 10 PER 50 PER	MEAN T ANNUAL M ANNUAL M T DAILY ME SEVEN-DA: M PEAK FIA TANBOUS LA CENT EXCEL CENT EXCEL CENT EXCEL	EAN EAN AN Y MINIMUM OW AGE OW FLOW EDS		98 0.10 0.13  6.0 0.52 0.24	Jun Oct Sep	20 9 28	5.11 186 0.10 Oct 9 0.13 1160° 15.24 0.08 8.4 0.64 0.19	Jun 9,Sep 13, Sep Jun Jun Oct 9,	12 14 8 12 12	4.79 6.73 2.46 465 0.02 0.04 1620 <sup>a</sup> 17.50 0.01 6.7 0.75	May Sep 26 Sep 26 Jun 24 Jun 24 Sep 25,26	1998 2001 7 2000 5 1999 5 1999 4 2000 4 2000 5 1999

e Estimated  $^{\rm a}$  From rating extended above 259  ${\rm ft}^3/{\rm s}$ .

### 07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO

LOCATION.--Lat  $38^{\circ}33^{\circ}59^{\circ}$ , long  $90^{\circ}28^{\circ}21^{\circ}$ , in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.9, T.44 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, on right upstream abutment of Quinette Road bridge, 1.7 mi north of Interstate 44, 1.8 mi west of Interstate 270, and 3.46 mi upstream of confluence of Meramec River.

DRAINAGE AREA. -- 21.8 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- May 1997 to current year.

GAGE. -- Water-stage recorder and crest-stage gage. Datum of gage unknown.

 $REMARKS.--Water-discharge\ records\ fair\ except\ for\ discharges\ below\ 1\ ft^3/s\ and\ above\ 3,000\ ft^3/s,\ which\ are\ poor.$ 

		DISCHAR	GE, CUBIC	FEET PER		WATER YE Y MEAN VA	CAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.33 0.39 1.7 1.7	2.0 19 4.6 2.0 1.9	13 7.6 6.1 5.4 5.3	2.5 2.3 2.5 2.3 3.2	57 22 16 11 9.5	2.6 130 22 8.8 8.4	9.1 10 7.3 5.8 6.9	12 9.2 7.0 6.5 4.4	3.9 3.0 2.6 3.7 45	1.2 1.0 26 6.1 1.3	0.51 0.64 0.67 0.55 0.53	0.57 0.54 0.49 0.47 0.38
6 7 8 9 10	5.3 1.1 1.5 2.1 205	1.8 1.6 2.0 3.2 3.3	8.2 6.2 5.1 4.2 4.0	4.3 3.7 3.4 4.2 7.7	8.9 7.7 6.7 6.3 8.8	7.8 5.3 4.4 144 15	8.0 12 87 21 11	43 292 287 327 30	9.7 3.8 2.0 4.0	1.2 0.73 0.63 0.64 1.5	5.9 2.1 0.84 0.73 0.61	0.59 0.70 0.44 0.42 0.45
11 12 13 14 15	169 53 25 9.1 55	2.0 1.8 1.8 2.1 3.2	4.6 75 27 101 14	6.7 3.3 2.7 2.7 2.7	6.7 5.4 5.1 4.6 4.7	9.6 9.1 7.4 6.5 77	4.9 11 7.0 7.3 5.5	19 110 371 31 19	261 718 26 13 8.8	1.6 1.2 1.2 0.80 0.62	0.65 0.65 20 8.6 2.3	0.49 0.38 0.36 0.35 0.86
16 17 18 19 20	46 3.8 1.6 1.6 2.6	2.2 2.3 2.9 16 8.5	333 278 30 17 12	2.8 2.0 2.2 7.6 5.5	4.7 4.5 4.1 52 19	36 20 15 77 46	6.6 6.9 2.8 32 81	42 200 45 21 15	6.2 5.1 5.1 3.8 2.9	11 4.9 3.6 1.6 0.83	1.4 0.94 73 9.3 6.2	2.6 32 9.4 88 57
21 22 23 24 25	6.9 2.9 13 95	4.3 3.2 2.7 307 11	11 20 9.7 7.4 6.2	3.8 3.8 4.6 20 4.0	7.3 4.2 3.5 2.9 4.6	16 10 13 12 188	70 19 10 82 22	12 12 10 17 11	2.8 1.9 1.8 5.6 5.8	1.5 0.66 11 1.4 0.85	1.9 1.1 2.3 4.0 1.4	7.9 2.4 1.5 1.3
26 27 28 29 30 31	1.7 1.1 2.0 3.1 1.9 1.6	11 7.9 62 56 107	5.1 5.2 5.1 4.7 3.4 2.9	2.4 2.0 2.2 8.8 254 476	8.4 3.2 2.9 	65 35 25 19 16 11	10 163 73 21 15	7.5 6.1 15 11 5.8 4.4	2.2 1.5 1.6 1.3 1.3	0.68 0.72 0.67 0.58 0.63 0.58	0.92 0.90 0.72 0.63 0.90 0.77	0.94 0.94 0.81 0.81 0.76
MEAN MAX MIN	25.5 205 0.33	21.9 307 1.6	33.5 333 2.9	27.6 476 2.0	10.8 57 2.9	34.2 188 2.6	27.6 163 2.8	64.6 371 4.4	39.8 718 1.3	2.80 26 0.58	4.89 73 0.51	7.17 88 0.35
STATIS	TICS OF MC	ONTHLY MEA	N DATA FO	R WATER Y	EARS 199	7 - 2002,	BY WATER	YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	11.1 25.5 2002 5.23 2000	11.4 21.9 2002 3.68 2000	12.4 33.5 2002 4.52 2001	22.2 47.2 1999 5.16 2000	30.6 64.3 1999 10.8 2002	31.8 78.5 1998 11.1 2001	22.5 35.3 1998 5.64 2000	32.2 64.6 2002 12.5 1998	33.1 67.2 1998 8.40 1999	14.7 39.4 1998 2.80 2002	11.4 19.2 1998 2.01 2001	7.19 9.39 2001 5.04 1998
SUMMAR	Y STATISTI	ICS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	WATER YE	ARS 1997	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN 10 PER 50 PER	MEAN T ANNUAL M ANNUAL M T DAILY ME DAILY ME SEVEN-DAY M PEAK FL M PEAK STL CENT EXCER CENT EXCER	EAN EAN AN MINIMUM OW AGE OW FLOW EDS		333 0.21 0.47  44 3.2 0.65	Dec Aug Aug	14	718 0.33 0.41 3650 <sup>a</sup> 11.76 0.20 57 5.1 0.73	Jun : Oct Sep Jun : Jun : Oct	1 8 12 12	20.4 28.4 11.4 1150 0.21 0.26 5100 <sup>a</sup> 14.95 <sup>b</sup> 0.01 42 3.8 0.84	Jun 2 Jun 1 Jun 2 Jun 2	1998 2001 7 1999 22 1999 14 2000 24 2000 30 1997

 $<sup>^{\</sup>rm a}$   $\,$  From rating extended above 1,440  ${\rm ft^3/s.}$   $^{\rm b}$   $\,$  From crest-stage gage.

## 07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 05	0856	ENVIRONM	IENTAL	161	7.1	74	7.6	958	16.1	260	70.9	21.3	157
DEC 11	0830	ENVIRONM	IENTAL	4.8	11.4	88	7.5	1290	4.1	390	108	28.9	236
FEB 05	1010	ENVIRONM		9.7	11.6	84	7.7	1250	2.0	370	103	28.0	222
19 MAY	1554	ENVIRONM		210	10.6	93	8.0	1030	8.4	300	79.0	24.0	182
29 AUG 09	1225 0820	ENVIRONM ENVIRONM		9.7	5.8 3.2	65 39	7.8 7.7	922 991	20.0	300 290	87.0 80.0	21.0	198 190
09	0820	ENVIRONM	ENTAL	.05	3.2	39	7.7	991	23.9	290	80.0	22.0	190
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 05	154	192	0		190	E1.1	.07	.150	<.01	.110	.28	8.0	45
DEC 11	237	289	0	173	E4	E.30	.03	.150	<.01	.050	E.07	15	19
FEB 05 19	224 182	273 222	0	170	11 307	.40 1.3	.01	1.20 .260	<.01 <.01	.060 .050	.07	9.2 3.5	11 22
MAY 29	199	243	0		38	.60	.10	.670	.03	.060	.12	5.5	18
AUG 09	191	233	0		39	.70	.03	.030	<.01	.060	.13	7.3	13
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)
OCT 05	14000	29000	13800	54	2	<1	1.0	1.0	2.0	57	<1	84	<.1
DEC 11	K37	K67	K30	16	<1	1	1.0	1.0	1.2	30	<1	114	<.1
FEB 05 19	K27 K670	K10 K333	К97 5800	14 164	<1 <1	<1 <1	<1.0 <1.0	<1.0 <1.0	<1.0 1.4	15 118	<1 <1	176 186	<.1 <.1
MAY 29	3200	2900	4850	41	1	<1	<1.0	<1.0	1.5	43	<1	120	<.1
AUG 09	K83	220	K88	<3	3	<1	<1.0	<1.0	1.5	3	<1	172	<.1
DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 05	1.5	<1	<1.0	67	<7	М	<2	<3	<3.0	<3	<20	<3	<2
DEC 11	1.9	<1	<1.0	48									
FEB 05 19	1.3 1.5	<1 <1	<1.0 <1.0	11 97	 E3	 M	 <2	 <3	 <.7	 <3	 <3	 <3	 <2
MAY													
29	2.2	<1	<1.0	56									
29 AUG 09													

## 07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued (Metropolitan Sewer District)

DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 05	<2	<2	<3	<3	<3	<2	<2	<3	<2	<2	<.01	М	<2
DEC 11													
FEB 05													
19 MAY	<2	<2	<1	<5	<3	<2	<2	<3	<2	<2	<.01	<2	<2
29 AUG 09													
03													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZO- [A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 05	<40	М	М	М	М	М	<3	<2	<2	М	<.02	<.1	<.01
DEC 11													
FEB 05 19	 <40	 M	 M	 M	 M	 M	 <3	 <2	 <2	 E2	 <.04	 <.1	 <.01
MAY 29													
AUG 09													
DATE	CHRY- SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
OCT 05	М	<2	<.02	.03	<.006	М	М	М	М		<.02	<.01	<.01
DEC 11													
FEB 05									=-				
19 MAY 29	M	<4	<.04	.05	<.006	<2	<2	<2	<5	<.30	<.02	<.01	<.01
AUG 09													
DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (µg/L) (39530)	METH- OXY- CHLOR, TOTAL (µg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	——————————————————————————————————————
DATE  OCT 05	ANTHENE TOTAL (µg/L)	ENE TOTAL (µg/L)	(DY- FONATE) WATER WHOLE TOT.REC (µg/L)	CHLOR EPOXIDE TOTAL (µg/L)	CHLOR, TOTAL (µg/L)	CHLORO- BENZENE TOTAL (µg/L)	(1,2,3- CD) PYRENE TOTAL (µg/L)	PHORONE TOTAL (µg/L)	TOTAL (µg/L)	THION, TOTAL (µg/L)	OXY- CHLOR, TOTAL (µg/L)	PARA- THION, TOTAL (µg/L)	TOTAL (µg/L)
OCT 05 DEC 11	ANTHENE TOTAL (µg/L) (34376)	ENE TOTAL (µg/L) (34381)	(DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	CHLOR EPOXIDE TOTAL (µg/L) (39420)	CHLOR, TOTAL (µg/L) (39410)	CHLORO- BENZENE TOTAL (µg/L) (39700)	(1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	PHORONE TOTAL (µg/L) (34408)	TOTAL (µg/L) (39340)	THION, TOTAL (µg/L) (39530)	OXY- CHLOR, TOTAL (µg/L) (39480)	PARA- THION, TOTAL (µg/L) (39600)	TOTAL (µg/L) (39755)
OCT 05 DEC 11 FEB 05	ANTHENE TOTAL (µg/L) (34376) M	ENE TOTAL (µg/L) (34381) <2	(DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614) <.01	CHLOR EPOXIDE TOTAL (µg/L) (39420) <.009	CHLOR, TOTAL (µg/L) (39410) <.01	CHLORO-BENZENE TOTAL (µg/L) (39700) <2	(1,2,3- CD) PYRENE TOTAL (µg/L) (34403) M	PHORONE TOTAL (µg/L) (34408) M	TOTAL (µg/L) (39340) <.006	THION, TOTAL (µg/L) (39530) <.10	OXY- CHLOR, TOTAL (µg/L) (39480) <.020	PARA- THION, TOTAL (µg/L) (39600) <.01	TOTAL (µg/L) (39755) <.006
OCT 05 DEC 11 FEB 05 19	ANTHENE TOTAL (µg/L) (34376) M  M	ENE TOTAL (µg/L) (34381) <2  M	(DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614) <.01	CHLOR EPOXIDE TOTAL (µg/L) (39420)  <.009 <.009	CHLOR, TOTAL (µg/L) (39410) <.01   <.01	CHLORO-BENZENE TOTAL (µg/L) (39700)  <2 <2	(1,2,3- CD) PYRENE TOTAL (µg/L) (34403) M	PHORONE TOTAL (µg/L) (34408) M  <2	TOTAL (µg/L) (39340) <.006 <.006	THION, TOTAL (µg/L) (39530) <.10   <.30	OXY- CHLOR, TOTAL (µg/L) (39480) <.020   <.020	PARA- THION, TOTAL (µg/L) (39600) <.01  <.02	TOTAL (µg/L) (39755) <.006 <.006
OCT 05 DEC 11 FEB 05	ANTHENE TOTAL (µg/L) (34376) M	ENE TOTAL (µg/L) (34381) <2	(DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614) <.01	CHLOR EPOXIDE TOTAL (µg/L) (39420) <.009	CHLOR, TOTAL (µg/L) (39410) <.01	CHLORO-BENZENE TOTAL (µg/L) (39700) <2	(1,2,3- CD) PYRENE TOTAL (µg/L) (34403) M	PHORONE TOTAL (µg/L) (34408) M	TOTAL (µg/L) (39340) <.006	THION, TOTAL (µg/L) (39530) <.10	OXY- CHLOR, TOTAL (µg/L) (39480) <.020	PARA- THION, TOTAL (µg/L) (39600) <.01	TOTAL (µg/L) (39755) <.006

### 07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued (Metropolitan Sewer District)

			N-										
	N-BUTYL	N-NITRO	NITRO-	N-NITRO				PARA-					
	BENZYL	-SODI-	SODI-N-	-SODI-	P,P'-		P,P'-	CHLORO-			PENTA-		
DATE	PHTHAL- ATE TOTAL (µg/L)	METHYL- AMINE TOTAL (µg/L)	PROPYL- AMINE TOTAL (µg/L)	PHENYL- AMINE TOTAL (µg/L)	DDD UNFILT RECOVER (µg/L)	P,P'- DDE, TOTAL (µg/L)	DDT UNFILT RECOVER (µg/L)	META CRESOL TOTAL (µg/L)	PARA- THION, TOTAL (µg/L)	PCB, TOTAL (µg/L)	CHLORO- PHENOL TOTAL (µg/L)	PHENAN- THRENE TOTAL (µg/L)	PHENOL UNFILT. WATER (µg/L)
	(34292)	(34438)	(34428)	(34433)	(39360)	(39365)	(39370)	(34452)	(39540)	(39516)	(39032)	(34461)	(34694)
OCT													
05	M	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	M	M	<3.0
DEC													
11													
FEB													
05													
19	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	M	M	<3.0
MAY													
29													
AUG													
09													

				BENZENE	BENZENE	BENZENE	BENZENE	ETHANE		
				1,2,4-	1,3-DI-	1,4-DI-	O-DI-	HEXA-	HEXA-	
				TRI-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	
			TOX-	CHLORO-	WATER	WATER	WATER	WATER	BUT-	NAPHTH-
	PHORATE	PYRENE	APHENE,	WAT UNF	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	ADIENE	ALENE
DATE	TOTAL	TOTAL	TOTAL	REC	REC	REC	REC	RECOVER	TOTAL	TOTAL
	$(\mu g/L)$									
	(39023)	(34469)	(39400)	(34551)	(34566)	(34571)	(34536)	(34396)	(39702)	(34696)
OCT										
05	<.06	M	<1	<2	<2	<2	<2	<2	<3	M
DEC										
11										
FEB										
05										
19	<.06	M	<1	<2	<2	<2	<2	<2	<1	<5
MAY										
29										
AUG										
09										

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 07019195 YARNELL CREEK AT FENTON, MO

LOCATION.--Lat 38°31'38", long 90°26'50", St. Louis County, Hydrologic Unit 07140102, on right downstream abutment of Fabick Drive bridge, 0.9 mi north of Highway 30, 1.05 mi south of Interstate 44, and 1.09 mi upstream from confluence of Meramec River.

DRAINAGE AREA. -- 2.71 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1997 to current year.

 ${\tt GAGE.--Water-stage}$  recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Records fair except estimated daily discharges and those below 1  ${\rm ft}^3/{\rm s}$  and above 400  ${\rm ft}^3/{\rm s}$ , which are poor.

. 1000	ido idii (	_		C FEET PER	SECOND,		AR OCTOBE				on are pe	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.15 0.14 0.16 0.13 8.5	0.14 1.8 0.27 0.32 0.23	1.0 0.34 0.30 0.26 0.25	0.35 0.35 0.34 0.35 0.34	6.9 2.1 1.6 1.0 0.76	0.63 14 2.7 1.0 e1.3	e1.7 e1.9 e1.6 e1.5 e1.5	1.6 1.3 1.1 0.92 0.92	0.74 0.69 0.63 0.63 4.5	e0.41 e0.38 e0.41 e0.42 e0.44	0.23 0.23 0.25 0.26 0.23	0.18 0.17 0.29 0.23 0.18
6 7 8 9 10	0 00	0 19	0 24	0.39 0.35 0.34 0.34		e1.1 e0.92 e0.80 e23 e1.7	e1.5 e1.9 e12 2.1 1.3	8.6 46 51 61 4.4	1.1 0.69 0.63 1.5	e0.42 e0.42 e0.40 e0.42 e0.50	1.1 0.30 0.22 0.20 0.20	0.17 0.17 0.16 0.21 0.17
11 12 13 14 15	26 5.3 3.3 1.1 9.4	0.18 0.18 0.18 0.18 0.18	0.19 11 2.5 13 2.1	0.34 0.34 0.31 0.28 0.26	0.60 0.50 0.47 0.45 0.45	e1.6 e1.5 e1.2 e0.99 e16	1.1 1.3 1.2 1.5 0.99	e3.1 e26 e46 e3.2 e3.5		e0.82 0.42 0.37 0.34 0.30	0.46 0.25 1.3 1.2 0.34	0.16 0.20 0.16 0.16 0.25
16 17 18 19 20	4.1 0.42 0.26 0.20 0.16	0.19 0.20 0.21 0.26 0.23	51 37 3.2 1.7	0.26 0.26 0.26 0.86 0.71	0.45 0.45 0.45 8.0 1.9	e3.0 e1.9 e1.4 e12 e3.6	0.81 0.76 0.95 7.0 6.5	e9.4 e46 e6.6 e3.8 e3.0	e0.74 e0.71 e0.70 e0.63 e0.59	0.30 0.30 0.27 0.30 0.28	0.48 0.87 14 0.72 0.34	0.20 5.0 0.76 3.0 8.8
21 22 23 24 25	2.0 7.5		0.85 1.7 1.00 0.71 0.60	0.66 0.57 1.3 2.0 0.55		e2.0 e1.6 e1.4 e2.0 e19	2.3	1.4	e1.7	0.30 3.0 1.9 0.34 0.25	0.27 0.25 0.25 0.26 0.23	0.53 0.21 0.18 0.18 0.17
26 27 28 29 30 31	0.45 0.28 0.23 0.17 0.16 0.14	0.80 0.54 7.6 5.8 11	0.53 0.50 0.56 0.48 0.42 0.37	0.39 0.34 0.30 0.85 33 65	1.1 0.82 0.70 	e6.1 e2.5 e2.0 e2.4 e1.9 e1.8	1.3 39 17 2.5 1.8	0.90 0.84 2.9 1.4 0.83 0.76	e0.49 e0.48 e0.47 e0.45 e0.43	0.20 0.20 0.21 0.21 0.23 0.23	0.23 0.23 0.24 0.22 0.23 0.18	0.18 0.61 0.21 0.15 0.15
MEAN MAX MIN	2.96 26 0.13	2.57 44 0.14	4.32 51 0.19	3.62 65 0.26	1.26 8.0 0.45	4.29 23 0.63	4.79 39 0.76	11.1 61 0.76	3.25 43 0.43	0.48 3.0 0.20	0.83 14 0.18	0.77 8.8 0.15
STATIST	rics of Mo	ONTHLY MEA	AN DATA FO	OR WATER Y	EARS 199	97 - 2002,	BY WATER	R YEAR (WY	()			
MEAN MAX (WY) MIN (WY)	1.86 2.96 2002 1.37 2000	1.80 2.57 2002 0.40 2000	1.69 4.32 2002 0.44 1999	3.08 6.59 1999 0.77 2000	4.36 9.37 1999 1.25 2002	4.46 11.8 1998 1.18 2000	3.61 6.08 1998 0.81 2000	4.79 11.1 2002 1.61 1998	5.96 11.7 1998 2.17 2001	2.96 7.82 1998 0.48 2002	2.07 3.76 1997 0.65 2001	1.22 2.40 2001 0.34 1999
SUMMAR	Y STATIST	ICS	FOI	R 2001 CAL	ENDAR YE	EAR	FOR 2002	WATER YE	EAR	WATER YE	ARS 1997	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERCE 50 PERCE	I ANNUAL M ANNUAL MI I DAILY MI DAILY MEA	EAN EAN AN Y MINIMUM OW AGE OW FLOW EDS		2.38 51 0.13 0.15  5.5 0.51 0.20	Dec Oct Sep	16 4 28	3.37 65 0.13 0.17 803 7.54 0.13 0.60	Jan Oct Sep Jun Jun Oct	31 4 5 12 12 14,5	3.15 4.64 1.88 165 0.13 0.15 882 <sup>2</sup> 7.82 0.13 5.6 0.53		1998 2001 7 1999 4 2001 24 2001 30 1998 30 1998 4 2001

e Estimated  $^{\rm a}$  From rating extended above 123  ${\rm ft}^3/{\rm s}$ .

#### 07019220 FENTON CREEK NEAR FENTON, MO

LOCATION.--Lat 38°30'41", long 90°26'41", St. Louis County, Hydrologic Unit 07140102, on left bank 100 ft downstream of Highway 141 bridge, 0.66 mi north of county line, 0.24 mi south of Highway 30, and 1.4 mi upstream from confluence of Meramec River.

DRAINAGE AREA.--4.29 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 416.09 ft above National Geodetic Vertical Datum of 1929. Prior to May 1, 2001, gage was located on left downstream abutment of Highway 141 bridge, 100 ft upstream at same datum.

 ${\tt REMARKS.--Water-discharge\ records\ fair.}$ 

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER	2001 TO	SEPTEMBER	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.30 0.33 0.33 0.36 5.9	0.46 2.1 0.49 0.43 0.43	1.5 0.94 0.85 0.75 0.71	0.82 0.78 0.75 0.71 0.71	8.4 2.8 2.0 1.4 1.1	0.81 21 3.2 1.6 1.8	2.5 2.8 2.3 2.2 2.2	3.6 3.3 2.6 2.3 2.3	1.1 1.1 1.1 8.5 1.5	0.51 0.48 0.50 0.50 0.51	0.36 0.37 0.35 0.33	0.40 0.39 0.41 0.40 0.40
6 7 8 9 10	0.63 0.38 0.37 0.38	0 43	0.77 0.64 0.59 0.53 0.55	0.80 0.72 0.70 0.63 0.70	1.1 0.99 0.86 0.80 0.93	1.5 1.2 1.2 37 3.1	2.2 3.0 20 3.9 2.8	18 62 77 83 6.0	1.1 0.91 0.93 1.8 3.4	0.51 0.50 0.49 0.52 0.56	0.81 0.38 0.35 0.34 0.34	0.39 0.38 0.37 0.37 0.61
11 12 13 14 15	27 4.6 4.2 0.98	0.48 0.49 0.50 0.48 0.48	0.60 14 3.5 24 4.7	0.64 0.61 0.60 0.59 0.56	0.74 0.71 0.67 0.66 0.67	2.4 2.1 1.6 1.5 26	2.6 5.1 2.4 2.5 2.1	4.3 34 58 5.2 3.7	40 56 3.4 1.2 1.0	0.95 0.76 0.68 0.49 0.49	1.4 0.41 1.6 0.72 0.50	0.59 0.31 0.31 0.49 0.33
16 17 18 19 20	4.0 1.0 0.49 0.51 0.43	0.41	84 59 4.9 2.7 1.9	0 55	0.64 0.61 0.62 13 2.5	5.4 2.9 2.2 20 6.4			0.94 0.89 0.88 0.83 0.76	0.45 0.44 0.42 0.43 0.41	0.44 0.43 13 1.3 0.68	0.31 3.8 0.65 1.4 7.4
21 22 23 24 25	0.41 0.43 1.4 9.2 0.99	0.37 0.37 0.43 50 1.2	1.5 2.1 1.5 1.2	0.92 0.76 1.7 2.2 0.93	1.2 0.94 0.90 0.92 1.3	3.1 2.4 2.1 3.2 35	6.8	2.4 2.1 1.7 2.1 1.8	0.73 0.69 0.65 0.68 2.1	0.40 4.6 0.94 0.48 0.44	0.52 0.47 0.55 0.47 0.44	0.60 0.47 0.43 0.43 0.39
26 27 28 29 30 31	0.46 0.41 0.37 0.38 0.39 0.43	0.98 0.75 9.1 10 17	1.0 1.0 0.96 0.86 0.80 0.84	0.84 0.78 0.77 1.2 44	1.0 0.88 0.84 	12 4.3 3.2 3.7 2.9 2.7	5.7 95 22 4.7 3.4		0.72 0.62 0.58 0.56 0.53	0.42 0.40 0.38 0.37 0.36	0.44 0.42 0.40 0.39 0.39 0.40	0.37 0.37 0.37 0.31 0.34
MEAN MAX MIN	3.03 27 0.30	3.36 50 0.37	7.10 84 0.53	5.03 88 0.55	1.76 13 0.61	7.02 37 0.81	10.4 95 1.9	15.3 83 1.2	4.51 56 0.53	0.64 4.6 0.36	0.95 13 0.33	0.79 7.4 0.31
STATIST	TICS OF M	ONTHLY MEA	N DATA FO	R WATER Y	EARS 1997	7 - 2002,	BY WATER	ZEAR (WY	)			
MEAN MAX (WY) MIN (WY)	2.15 3.04 2002 1.08 1998	2.40 3.36 2002 0.91 2000	2.59 7.09 2002 0.37 1999	5.04 12.7 1999 1.22 2000	6.36 12.6 1999 1.76 2002	6.89 18.1 1998 1.69 2000	5.84 10.5 2002 1.23 2000	6.82 16.1 2002 1.87 1998	7.55 14.3 1998 2.83 2001	3.32 8.12 1998 0.64 2002	2.55 4.80 2000 0.82 2001	1.06 1.95 2000 0.26 1999
SUMMARY	STATIST	ICS	FOR	2001 CAL	ENDAR YEA	AR.	FOR 2002 V	VATER YE	AR	WATER YE	ARS 1997	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	T ANNUAL 1 ANNUAL M T DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE OW FLOW EDS EDS		3.16 84 0.19 0.23  7.3 0.71 0.32	Dec 1 Sep 15,1 Sep 2	L6 L6 22	95 0.30 0.36 1130 <sup>a</sup> 5.26 0.26 12 0.88 0.38	Apr Oct Jul May May Oct	27 1 30 9 9	4.14 6.07 2.51 171 0.13 0.17 1260 <sup>b</sup> 9.71 0.07 7.9 0.69 0.27	Feb Sep 2 Sep 2 Jun 1 Jun 1 Sep 2	1998 2001 7 1999 7 1999 1 1999 1 1998 1 1998 2 1999

 $<sup>^{\</sup>rm a}$  From rating extended above 150 ft  $^{\rm 3}/{\rm s.}$  b From rating extended above 325 ft  $^{\rm 3}/{\rm s.}$ 

## 07019220 FENTON CREEK NEAR FENTON, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

DATE	TIME	SAMPLE TYPE	Σ	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 15	2030	ENVIRONN	MENTAL	92	8.4	80	6.7	340	12.2	140	40.0	9.00	85
DEC 11 FEB	1405	ENVIRON	MENTAL	.59	11.1	96	7.4	1240	8.4	550	150	41.5	235
05 19 19	0742 1522 1530	ENVIRONN ENVIRONN BLANK		1.1 97 	10.9 9.9 	83 91 	7.3 7.7 	1380 456 	3.9 9.9 	530 150 	143 39.0 .28	42.0 12.0 .04	234 110 
MAY 29 AUG	1530	ENVIRON	MENTAL	1.54	8.6	98	7.7	679	21.2	500	137	38.0	226
06	0810	ENVIRON	MENTAL	2.32	4.7	57	7.6	711	24.8	220	62.0	16.0	136
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 15 DEC	88	108	0		336	<.20	.03	.520	.01	.180	.30	30	21
11 FEB	239	292	0	82.8	<1	E.30	.12	4.70	.01	.030	E.05	17	13
05 19 19	238 110 	290 134 	0 0 	110  	10 336 16	.40 1.3 <.20	<.01 .05 <.01	4.70 .480 <.020	<.01 .02 <.01	.040 .060 .010	.04 .26 <.02	23 4.0 	8 25 <5
MAY 29	226	276	0		10	.30	.04	4.50	.02	.020	.03	7.9	11
AUG 06	135	164	0		20	2.0	<.01	1.80	.08	.020	.15	7.2	90
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 15	K5600	K41000	K8400	350	1	<1	<1.0	1.1	2.7	365	1	108	<.1
DEC 11	K50	K100	K33	3	<1	1	1.0	1.0	1.0	7	<1	85	<.1
FEB 05 19 19	420 K1200	1500 K1500	100 29000 	17 1210 <3	<1 <1 <1	<1 <1 <1	<1.0 <1.0 <1.0	<1.0 1.1 <1.0	<1.0 1.8 <1.0	9 761 <2	<1 <1 <1	107 103 <1	<.1 <.1 <.1
MAY 29	390	K300	385	14	<1	<1	<1.0	<1.0	1.2	17	<1	55	<.1
AUG 06	K16000	K12000	K46400	16	2	<1	<1.0	1.1	4.7	31	<1	108	<.1

## 07019220 FENTON CREEK NEAR FENTON, MO--Continued (Metropolitan Sewer District)

DATE  OCT     15  DEC     11  FEB     05	NICKEL, DIS- SOLVED (µg/L as Ni) (01065) 2.2 2.7 3.0	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)  <1 <1	SILVER, DIS- SOLVED (µg/L as Ag) (01075) <1.0 <1.0	ZINC, DIS- SOLVED (µg/L as Zn) (01090) 109 42	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)  M	HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606) <3.0	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
19 19	1.3 <1.0	<1 <1	<1.0 <1.0	52 24	E4 <7	M <3	<2 <2	<3 <3	<.7 <.7	<3 <3	<3 <3	<3 <3	<2 <2
MAY 29	2.8	<1	<1.0	70									
AUG 06	4.5	<1	<1.0	36									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 15	<2	<2	<3	<3	<3	<2	<2	<3	М	М	<.01	М	<2
DEC 11													
FEB 05 19 19	 <2 <2	 <2 <2	 <1 <1	 <5 <5	 <3 <3	 <2 <2	 <2 <2	 <3 <3	 M <2	 <2 <2	 <.01 <.01	 M <2	 <2 <2
MAY 29													
AUG 06													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZO- [A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLITED RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO- PHENO- THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
ОСТ 15	DINE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L)	[A]- ANTHRA- CENE WAT UNF (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L)	CHLORO- ETHOXY) METHANE TOTAL (µg/L)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L)	PHENO- THION WATER UNFLTRD (µg/L)	DANE, TECH- NICAL TOTAL (µg/L)	PYRIFOS TOTAL RECOVER (µg/L)
OCT 15 DEC 11	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 15 DEC 11 FEB 05	DINE TOTAL (µg/L) (39120) <40	A- PYRENE TOTAL (µg/L) (34247)  M	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)  <3	CHLORO- ETHYL) ETHER UNFLITED RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2	PHENO- THION WATER UNFLIRD (µg/L) (39786) <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01
OCT 15 DEC 11 FEB 05 19 MAY	DINE TOTAL (µg/L) (39120)	A- PYRENE TOTAL (µg/L) (34247)	FLUOR- AN- THENE TOTAL (µg/L) (34230)	FLUOR- AN- THENE TOTAL (µg/L) (34242)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)	CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	PHENO- THION WATER UNFLTRD (µg/L) (39786)	DANE, TECH- NICAL TOTAL (µg/L) (39350)	PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 15 DEC 11 FEB 05 19 MAY 29	DINE TOTAL (μg/L) (39120) <40  <40 <40	A- PYRENE TOTAL (µg/L) (34247)  M M	FLUOR- AN- THENE TOTAL (µg/L) (34230) M	FLUOR- AN- THENE TOTAL (µg/L) (34242) M M <2	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M < M <2	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M  M <3	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <33 <3	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) E2  < <6 E14	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02  <.04 <.04	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01  <.01 <.01
OCT 15 DEC 11 FEB 05 19 19	DINE TOTAL (µg/L) (39120) <40  -40	A- PYRENE TOTAL (µg/L) (34247)  M M	FLUOR- AN- THENE TOTAL (µg/L) (34230) M	FLUOR- AN- THENE TOTAL (µg/L) (34242) M	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <33 <3	CHLORO- ETHYLL) ETHER UNFLIRD RECOVER (µg/L) (34273) <2  -2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) E2  <6	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.04	DANE, TECH- NICAL TOTAL (µg/L) (39350) <.1  <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01  <.01 <.01
OCT 15 DEC 11 FEB 05 19 MAY 29	DINE TOTAL (μg/L) (39120) <40  <40 <40	A- PYRENE TOTAL (µg/L) (34247)  M M	FLUOR- AN- THENE TOTAL (µg/L) (34230) M	FLUOR- AN- THENE TOTAL (µg/L) (34242) M M <2	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M < M <2	[GHI]- PERY- LENE TOTAL (µg/L) (34521) M  M <3	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <33 <3	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100) E2  < <6 E14	PHENO- THION WATER UNFLTRD (µg/L) (39786) <.02   <.04 <.04	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01  <.01 <.01
OCT 15 DEC 11 FEB 05 19 19 MAY 29 AUG 06 DATE	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)	A-PYRENE TOTAL (µg/L) (34247)  M M <1 CYCLOPE NTADIEN HEXA- CHLORO- UNFLIRD RECOVER (µg/L) (34386)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M <2 DEF TOTAL (µg/L) (199/L) (199/L) (199/L) (199/L)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M <2 DI- AZINON, TOTAL (µg/L) (39570)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M <2 ELDRIN TOTAL (µg/L) (39380)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M <3 DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 HETHYL PHTHAL-ATE TOTAL (µg/L) (34341)	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2  <2 <2 <2  PDI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2 <6 E14 DISUL- FOTON UNFILT RECOVER (µg/L)	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.04 <.04  ENDO- SULFAN I TOTAL (µg/L) (39388)	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1  ENDRIN WATER UNFLTRD REC (µg/L) (39390)	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01  <.01 <.01   ETHION, TOTAL (µg/L) (39398)
OCT 15 DEC 11 FEB 05 19 19 MAY 29 AUG 06	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L)	A- PYRENE TOTAL (µg/L) (34247)  M M <1 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M <2 DEF TOTAL (µg/L)	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M <2 DI- AZINON, TOTAL (µg/L)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M <2 DI- ELDRIN TOTAL (µg/L)	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M <3 DIETHYL PHTHAL- ATE TOTAL (µg/L)	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 <theorem< td=""><td>CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;2 &lt;2 &lt;2 &lt;2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L)</td><td>CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2 &lt;2  PDI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2 &lt;-6 E14  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)</td><td>PHENO-THION WATER UNFLTRD (µg/L) (39786)  &lt;.02 &lt;.04 &lt;.04 ENDO-SULFAN I TOTAL (µg/L)</td><td>DANE, TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1  ENDRIN WATER UNFLTRD REC (µg/L)</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932) &lt;.01  &lt;.01 &lt;.01   ETHION, TOTAL (µg/L)</td></theorem<>	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L)	CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2 <2  PDI-N- OCTYL PHTHAL- ATE TOTAL (µg/L)	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2 <-6 E14  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO-THION WATER UNFLTRD (µg/L) (39786)  <.02 <.04 <.04 ENDO-SULFAN I TOTAL (µg/L)	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1  ENDRIN WATER UNFLTRD REC (µg/L)	PYRIFOS TOTAL RECOVER (µg/L) (38932) <.01  <.01 <.01   ETHION, TOTAL (µg/L)
OCT 15 DEC 11 FEB 05 19 19 AUG 06  DATE  OCT 15 DEC 11 FEB 05	DINE TOTAL (µg/L) (39120)  <40 <40 <40 SENE TOTAL (µg/L) (34320)  M	A- PYRENE TOTAL (μg/L) (34247)  M M <1 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M <2 DEF TOTAL (µg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M <2 AZINON, TOTAL (µg/L) (39570)  .04	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M <2 DI- ELDRIN TOTAL (µg/L) (39380)  <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M <3 DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3 <total control="" of="" of<="" td="" the=""><td>CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  &lt;22 &lt;2 &lt;2BUTYL BUTYL PHTHAL ATE TOTAL (µg/L) (39110)  M</td><td>CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  &lt;2 &lt;2 &lt;2 &lt;2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M</td><td>ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2 &lt;-6 E14  DISUL- FOTON UNFILT RECOVER (µg/L) (39011) </td><td>PHENO-THION WATER UNFLTRD (µg/L) (39786)   &lt;.02</td><td>DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  &lt;.1 &lt;.1 &lt;.1 &lt;.1 (.1)  ENDRIN WATER UNFLIRD REC (µg/L) (39390)  &lt;.01</td><td>PYRIFOS TOTAL RECOVER (µg/L) (38932)  &lt;.01 &lt;.01 &lt;.01 ETHION, TOTAL (µg/L) (39398)  &lt;.01</td></total>	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <22 <2 <2BUTYL BUTYL PHTHAL ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <2 <2 <2 <2  DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2 <-6 E14  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO-THION WATER UNFLTRD (µg/L) (39786)   <.02	DANE, TECH- TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 <.1 (.1)  ENDRIN WATER UNFLIRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01 ETHION, TOTAL (µg/L) (39398)  <.01
OCT 15 DEC 11 FEB 05 19 MAY 29 AUG 06  DATE  OCT 15 DEC 11 FEB 05 19	DINE TOTAL (µg/L) (39120)  <4040 <40 SENE TOTAL (µg/L) (34320)  M	A- PYRENE TOTAL (µg/L) (34247)  M M <1 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)  <2	FLUOR- AN- THENE TOTAL (µg/L) (34230)  M M <2 DEF TOTAL (µg/L) (39040)  <.02	FLUOR- AN- THENE TOTAL (µg/L) (34242)  M M <2 DI- AZINON, TOTAL (µg/L) (39570)	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M <2 DI- ELDRIN TOTAL (µg/L) (39380) <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M <3 DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3  METHYL PHTHAL-ATE TOTAL (µg/L) (34341)  M	CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <22 <21 BUTYL BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <22 <2 <2 DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)  M	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E26 E14 DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.04 <.04  ENDO- SULFAN I TOTAL (µg/L) (39388)  <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1  ENDRIN WATER UNFLTRD REC (µg/L) (39390)  <.01	PYRIFOS TOTAL RECOVER (µg/L) (38932)   <.01
OCT 15 DEC 11 FEB 05 19 MAY 29 AUG 06  DATE  OCT 15 DEC 11 FEB 05 19	DINE TOTAL (µg/L) (39120)  <40 <40 <40  CHRY- SENE TOTAL (µg/L) (34320)  M M	A- PYRENE TOTAL (μg/L) (34247)  M M <1 CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (μg/L) (34386)  <2 <4	FLUOR- AN- THENE TOTAL (μg/L) (34230)  M M <2 DEF TOTAL (μg/L) (39040)  <.02 <.04	FLUOR- AN- THENE TOTAL (μg/L) (34242)  M M <2 AZINON, TOTAL (μg/L) (39570)  .04 <.04	[A]- ANTHRA- CENE WAT UNF (µg/L) (34526)  M M <2 ELDRIN TOTAL (µg/L) (39380)  <.006 <.006	[GHI]- PERY- LENE TOTAL (µg/L) (34521)  M M <3 DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)  M <2	CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)  <3 <3 <3  METHYL PHTHAL-ATE TOTAL (µg/L) (34341)  M M	CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)  <2 <2 <2 <2  DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)  M <2	CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)  <22 <2 <2 NOTYL PHTHAL ATE TOTAL (µg/L) (34596)  M <5	ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)  E2 <-6 E14 SOURCE (µg/L) (39011)  DISUL- FOTON UNFILT RECOVER (µg/L) (39011)  <-30	PHENO- THION WATER UNFLTRD (µg/L) (39786)  <.02 <.04 <.04  ENDO- SULFAN I TOTAL (µg/L) (39388)  <.02 <.02	DANE, TECH- NICAL TOTAL (µg/L) (39350)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	PYRIFOS TOTAL RECOVER (µg/L) (38932)  <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01

### 07019220 FENTON CREEK NEAR FENTON, MO--Continued (Metropolitan Sewer District)

DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (μg/L) (39530)	METH- OXY- CHLOR, TOTAL (μg/L) (39480)	METHYL PARA- THION, TOTAL (μg/L) (39600)	MIREX, TOTAL (μg/L) (39755)
OCT 15	М	М	<.01	<.009	<.01	<2	М	М	<.006	E.05	<.020	<.01	<.006
DEC 11													
FEB 05													
19 19	M <2	M <2	<.01 <.01	<.009 <.009	<.01 <.01	<2 <2	M <3	M <2	<.006 <.006	<.30 <.30	<.020 <.020	<.02 <.02	<.006 <.006
29 AUG													
06													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 15 DEC	М	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
11													
FEB 05													
19 19	<4 <4	<3 <3	<2 <2	<2 <2	<.007 <.007	<.006 <.006	<.009 <.009	<3 <3	<.01 <.01	<.1 <.1	M <4	M <2	<3.0 <3.0
MAY 29													
AUG 06													
	DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX- APHENE, TOTAL (µg/L) (39400)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34536)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (µg/L) (34396)	HEXA- CHLORO- BUT- ADIENE TOTAL (µg/L) (39702)	NAPHTH- ALENE TOTAL (µg/L) (34696)		
	OCT			_	_	_	_	_	_				
	15 DEC	<.06	М	<1	<2	<2	<2	<2	<2	<3	М		
	11 FEB												
	05 19	 <.06	 M	 <1	 <2	 <2	 <2	 <2	 <2	 <1	 M		
	19	<.06	<2	<1	<2	<2	<2	<2	<2	<1	<5		
	MAY 29												
	06												

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 07019280 MERAMEC RIVER AT PAULINA HILLS, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°27'46", long 90°24'53", Jefferson County, Hydrologic Unit 07140102, at bridge on State Highway 21 at Paulina Hills, 0.3 mi downstream from Saline Creek, and 10 mi upstream from mouth of Meramec River.

DRAINAGE AREA. -- 3,920 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1963 to July 1975, October 1981 to current year. August 1963 to September 1970 published as Meramec River at Paulina Hills (07019045).

DATE	TIME	SAMPLE TYPE	3	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 16 16	0740 0741	ENVIRONME REPLICATE		846	5.8	57 	7.7	440	14.5				
NOV 14	1520	ENVIRONME	NTAL	744	11.0	109	8.1	454	14.1	210	43.8	25.3	1.45
DEC 11	1450	ENVIRONME	NTAL	1210	6.6	57	7.5	382	8.4				
JAN 15	1430	ENVIRONME	NTAL	1070	12.6	103	7.8	411	6.4	200	42.2	22.4	1.00
FEB 12	0845	ENVIRONME	NTAL	2380	11.0	89	7.9	315	6.3				
MAR 12	1535	ENVIRONME	NTAL	7460	9.8	85	7.6	228	8.6				
APR 03	1215	ENVIRONME	NTAL	3680	8.0	75	8.0	319	11.7				
MAY 28	1100	ENVIRONME	NTAL	4410	5.3	59	7.7	289	19.9	140	31.8	15.3	1.25
JUN 04	0800	ENVIRONME		2580	6.9	86	8.0	318	25.8				
04 JUL	0801	REPLICATE		1060						100			
10 AUG	1430	ENVIRONME		1260	6.4	88	8.0	384	31.2	190	41.4	21.3	2.15
14 SEP	1145	ENVIRONME		2860	5.7	73	7.8	448	27.2				
04	1430	ENVIRONME	INT'AL	1020	5.3	70	8.5	347	29.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	FET FIELD (mg/L as CaCO <sub>3</sub> )	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 16 16	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 16 16 NOV 14	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 16 16 NOV 14 DEC 11	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT     16     16 NOV     14 DEC     11 JAN     15	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  159 182	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  51 49 24	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (Mg/L as N) (00608)  .10 .12 .21	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .63 .65	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .47 .48 .31
OCT 16 16 NOV 14 DEC 11 JAN 15 FEB 12	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 159  182 223	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 160  184 230	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  51 49 24 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L (ms/N) (00608)  .10 .12 .21	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .63 .65 .68	GEN, NO2+NO3 DIS-SOLVED (mg/L as N) (00631)  .47 .48 .31 .37
OCT 16 NOV 14 DEC 11 JAN 15 FEB 12 MAR 12	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FILLD (mg/L as CaCO <sub>3</sub> ) (00410)  159 182 223 169	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 160  184 230 170	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 194  225 281 207	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  29.0  25.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  51 49 24 <10 14	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .10 .12 .21 .21 .21	GEN, AM- MONIA + ORGANIC TOTTAL (mg/L as N) (00625)  .63 .65 .68 .50	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .47 .48 .31 .37
OCT 16 16 NOV 14 DEC 11 JAN 15 FEB 12 MAR 12 APR 03	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  159 182 223 169 126	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 160  184 230 170 126	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 194  225 281 207 153	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0  0 0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)   20.3  14.7	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  29.0  25.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  51 49 24 <10 14 10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .10 .12 .21 .21 .21 <.04 E.14	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .63 .65 .68 .50 .59	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .47 .48 .31 .37 .54 E.65
OCT     16     16 NOV     14 DEC     11 JAN     15 FEB     12 MAR     12 APR     03 MAY     28	DIS- SOLVED (mg/L as Na) (00930)   15.3  9.32	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  159 182 223 169 126 97	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 160  184 230 170 126 96	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 194  225 281 207 153 118	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.3  14.7	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  29.0  25.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  51 49 24 <10 14 10 56	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .10 .12 .21 .21 .21 <.04 E.14 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .63 .65 .68 .50 .59 .41 .60	GEN, NO2+NO3 DIS-SOLVED (mg/L as N) (00631)  .47 .48 .31 .37 .54 E.65 .28
OCT     16     16 NOV     14 DEC     11 JAN     15 FEB     12 MAR     12 APR     03 MAY     28 JUN     04 04	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  159 182 223 169 126 97	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 160  184 230 170 126 96 130	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 194  225 281 207 153 118	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.3  14.7	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  29.0  25.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  51 49 24 <10 14 10 56 38	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .10 .12 .21 .21 .21 <.04 E.14 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .63 .65 .68 .50 .59 .41 .60 .39	GEN, NO2+NO3 DIS-SOLVED (mg/L as N) (00631)  .47 .48 .31 .37 .54 E.65 .28 .40
OCT     16     16 NOV     14 DEC     11 JAN     15 FEB     12 MAR     12 APR     03 MAY     28 JUN     04 04 JULL 10	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  159 182 223 169 126 97 129 128 138	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 160  184 230 170 126 96 130 128 139	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 194  225 281 207 153 118 159 156 170	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  20.3 14.7 6.97	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  29.0  25.0   15.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  51 49 24 <10 14 10 56 38 20 38	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  260 230 172	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .10 .12 .21 .21 .21 <.04 E.14 <.04 .07 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .63 .65 .68 .50 .59 .41 .60 .39 .33 .45	GEN, NO2+NO3 DIS-SOLVED (mg/L as N) (00631)  .47 .48 .31 .37 .54 E.65 .28 .40 .55 .06
OCT 16 16 NOV 14 DEC 11 JAN 15 FEB 12 MAR 12 APR 03 APR 28 JUN 04 04 JUL	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  159 182 223 169 126 97 129 128 138	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 160  184 230 170 126 96 130 128	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  194 225 281 207 153 118 159 156 170	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0 0 0 0 0	RIDE, DIS- DIS- SOLVED (mg/L as C1) (00940)  20.3 14.7 6.97	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  29.0 25.0 15.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  51 49 24 <10 14 10 56 38 20 38 44	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  260 230 172 172	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .10 .12 .21 .21 .21 <.04 E.14 <.04 .07 <.04 .04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .63 .65 .68 .50 .59 .41 .60 .39 .33 .45 .41	GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631) .47 .48 .31 .37 .54 E.65 .28 .40 .55

## 07019280 MERAMEC RIVER AT PAULINA HILLS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 16 16	.052	.12	.10	.18	92 	88	115						
NOV 14	.028	.09	.07	.14	98	144	K17	31	326	.7	E.03	<.1	<6
DEC 11	.044	.07	.06	.10	K460	K300	49						
JAN 15	.017	E.04	.03	.08	К4	K20	K22	11	124	. 4	E.02	<.1	<6
FEB 12	E.008	<.06	E.04	E.06	48	145	58						
MAR 12	.014	E.04	.02	.11	290	K413	420						
APR 03	.012	E.03	E.01	.08	<2	к7	К9						
MAY 28	.016	E.03	E.01	.07	K33	100	56	43	322	.5	E.03	<.1	<6
JUN 04 04	.018 .016	<.06 <.06	<.02 <.02	.07 E.05	K31 K26	K26 K20	K33 K33						
JUL 10	.015	E.04	.03	.11	K14	84	K4	4	399	1.3	<.04	E.1	<6
AUG 14	.028	.07	.06	.14	K27	62	48						
SEP 04	.019	E.04	.02	.12	21	K24	K8						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT												
		.6 .6											
	1	4	30	.63	8	34.0	<.01	E.2	15	16			
	DEC 1 JAN	1											
		5	19	.28	6	63.8	<.01	.4	10	9			
		2											
		2											
		13											
		8	72	1.52	13	56.6	<.01	E.3		8			
	0	14 14											
	JUL		<10	.61	20	47.4	<.01	E.2	2	9			
	AUG	4											
	SEP												

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

### 07019317 MATTESE CREEK NEAR MATTESE, MO

LOCATION.--Lat  $38^{\circ}28^{\circ}59^{\circ}$ , long  $90^{\circ}20^{\circ}27^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.10, T.43 N., R.6 E., St. Louis County, Hydrologic Unit 07140102, on right downstream pier of Ringer Road bridge, 0.86 mi east of Interstate 55, 1.4 mi south of Interstate 255, and 3.4 mi above confluence to Meramec River.

DRAINAGE AREA. -- 7.88 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 413.57 ft above National Geodetic Vertical Datum of 1929. REMARKS.--Water-discharge records poor.

		DISCHA	RGE, CUBI	C FEET PE		WATER Y Y MEAN V	YEAR OCTOBER	R 2001 TO	) SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 24	0.00 12 0.62 0.11 0.00	3.0 2.4 1.9 1.6 2.0	e0.60 e0.55 e0.48 e0.40 e0.37	15 5.0 3.6 2.9 2.7	0.90 e25 e7.0 e2.8 2.4	2.9 3.9 2.5 2.4 2.0	6.5 6.8 5.1 4.7 4.2	1.1 0.99 0.87 0.70 1.1	0.00 0.00 2.0 0.12 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	2.9 0.02 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1.8 0.79 0.49 0.18 0.14	e0.70 e0.46 0.25 0.26 0.29	2.6 1.8 1.4 1.3	2.2 1.6 1.6 64 4.8	1.8 3.7 29 5.9 3.0	28 66 89 108 11	0.89 0.49 0.44 0.34 22	0.00 0.00 0.00 0.00 0.20	14 0.26 0.00 0.14 0.00	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	87 15 13 2.8 27	0.00 0.00 0.00 0.00 0.00	0.09 36 13 63 13	0.20 0.17 0.12 0.11 0.07	1.2 0.96 0.82 0.68 0.73	3.4 3.1 2.3 1.9	2.6 4.8 2.6 3.9 2.0	7.4 41 57 9.4 6.2	124 150 4.5 1.2 0.54	0.02 0.71 0.00 0.00 0.01	45 1.3 2.4 1.9 0.76	0.00 0.00 0.00 33 2.0
16 17 18 19 20	12 1.7 1.2 1.0 0.47	0.00 0.00 0.00 0.00 0.00	105 79 6.5 4.2 2.9	0.14 0.15 0.05 e4.6 1.0	0.66 0.41 0.37 21 4.1	11 5.2 3.7 28 9.9	1.5 2.1 1.2 11	14 50 12 6.2 4.7	0.28 0.13 0.08 0.05 0.02	0.00 0.00 0.03 0.00 0.00	0.49 0.00 22 13 3.5	0.00 19 3.2 17 19
21 22 23 24 25	0.08 0.00 5.8 35 3.1	0.00 0.00 0.00 98 2.7	2.4 2.8 1.8 1.4	0.56 e0.60 5.3 5.4 0.93	1.7 1.3 1.0 1.0 3.8	4.8 3.7 3.3 4.2 e50	22 4.5 2.8 12 3.7	3.7 3.1 2.8 4.4 3.0	0.00 0.00 0.00 0.00	0.00 28 3.5 0.00 0.00	0.38 0.04 0.68 0.07 0.00	2.4 0.74 0.04 0.00 0.73
26 27 28 29 30 31	1.2 0.63 0.25 0.06 0.10 0.00	1.6 1.1 23 30 39	1.0 0.97 0.91 0.75 e0.70 e0.66	0.75 0.64 0.51 0.69 55	e3.5 1.6 0.98 	24 6.6 5.0 8.5 3.8 3.1	2.2 92 27 9.4 7.3	2.0 6.2 27 4.0 2.0	1.1 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.10 0.00 0.00 0.00 0.00
MEAN MAX MIN IN.	8.11 87 0.00 1.19	6.94 98 0.00 0.98	11.3 105 0.09 1.66	6.43 118 0.05 0.94	3.00 21 0.37 0.40	11.6 64 0.90 1.69	9.42 92 1.2 1.33	19.2 108 1.5 2.82	10.7 150 0.00 1.51	1.12 28 0.00 0.16	3.42 45 0.00 0.50	3.24 33 0.00 0.46
							2, BY WATER					
MEAN MAX (WY) MIN (WY)	3.50 8.11 2002 1.58 2000	6.82 19.7 1997 0.96 2000	4.08 11.3 2002 0.66 1999	7.92 16.0 1997 1.05 2001	11.4 23.9 1997 3.00 2002	11.5 31.9 1998 2.63 2001	8.62 19.6 1998 2.33 2000	10.8 19.3 2002 3.50 1999	16.4 30.8 2000 3.01 2001	8.56 18.7 1998 1.12 2002	5.14 10.7 1998 1.85 2001	3.94 10.7 1996 0.27 1999
SUMMARY	Y STATIST	ICS	FOR	2001 CALE	NDAR YEAR		FOR 2002 W	ATER YEAF	2	WATER Y	EARS 1996	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE		ı	0.00	Jul 24 Many Days At Times		3310 <sup>a</sup> 10.09	Jun 12 ral Days At Times Jun 12 Jun 12 any Days	0.00 8310 12.82	Many Day a Many Day	s 1997,200 Jul : Jul : Jul :	30 1997 24 2001 24 2001	

e Estimated a From rating extended above 571  $\mathrm{ft^3/s.}$ 

## 07019317 MATTESE CREEK NEAR MATTESE, MO--Continued (Metropolitan Sewer District)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
OCT 15	1943	ENVIRONM	ENTAL	121	8.7	84	6.9	655	13.2	210	63.0	12.0	111
DEC 10	1405	ENVIRONM	ENTAL	.14	11.1	95	7.6	1170	7.5	390	119	23.1	244
FEB 04	1532	ENVIRONM	ENTAL	2.9	13.8	111	7.2	1200	5.8	380	116	23.0	251
MAR 09	0226	ENVIRONM	ENTAL	107	9.5	94	7.7	2050	13.5	140	43.0	7.60	93
MAY 28	1240	ENVIRONM	ENTAL	2.0	10.8	123	7.8	848	20.5	300	93.0	17.0	218
AUG 05 05	1030 1031	ENVIRONM BLANK	ENTAL	e.01 	6.7	89 	8.1	508 	29.6	260 	79.0 <.02	16.0 <.03	188
DATE	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO- GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS- PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS- SOLVED (mg/L as CO <sub>2</sub> ) (00405)	OXYGEN DEMAND, CHEM- ICAL (high level) (mg/L) (00340)
OCT 15 DEC	112	136	0		121	<.20	.01	.690	.01	.110	. 22	26	23
10 FEB	252	308	0	160	<1	E.40	.04	.560	<.01	.050	E.06	11	16
04 MAR	255	311	0	170	<1	.20	<.01	1.00	<.01	.050	.05	28	13
09 MAY	90	110	0		803	3.3	.13	.420	.02	.110	.72	3.8	44
28 AUG	219	267	0		5	.20	.05	.730	.02	.050	.05	6.4	16
05 05	188	230	0		<1 <1	.40 <.20	.02 <.01	.050 <.020	<.01 <.01	.070 <.010	.08 <.02	3.1	14 8
DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)
OCT 15 DEC	K2700	K5600	K44000	151	1	<1	<1.0	<1.0	2.6	164	<1	55	<.1
10 FEB	K150	230	К92	9	<1	1	1.0	1.0	1.3	29	<1	21	<.1
04 MAR	K15	285	153	8	<1	<1	<1.0	<1.0	1.2	25	<1	47	<.1
09 MAY	K200	5400	7000	401	2	<1	<1.0	3.2	3.3	244	1	82	<.1
28 AUG	720	1140	1000	37	<1	<1	<1.0	<1.0	1.6	33	<1	26	<.1
05 05	680 	1000	104 	<3 <3	2 <1	<1 <1	<1.0 <1.0	<1.0 <1.0	1.7 <1.0	5 2	<1 <1	209 <1	<.1 <.1

## 07019317 MATTESE CREEK NEAR MATTESE, MO--Continued (Metropolitan Sewer District)

DATE	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (µg/L) (82626)	2,4,6- TRI- CHLORO- PHENOL TOTAL (µg/L) (34621)	2,4-DI- METHYL- PHENOL TOTAL (µg/L) (34606)	2,4-DI- CHLORO- PHENOL TOTAL (µg/L) (34601)	2,4,- DI- NITRO- PHENOL TOTAL (µg/L) (34616)	2,4-DI- NITRO- TOLUENE TOTAL (µg/L) (34611)	2,6-DI- NITRO- TOLUENE TOTAL (µg/L) (34626)
OCT 15	1.7	2	<1.0	140	<7	М	<2	<3	<3.0	<3	<20	<3	<2
DEC 10	1.7	1	<1.0	35									
FEB 04	<1.0	3	<1.0	20									
MAR 09	2.4	<1	<1.0	108	<7	М	<2	<3	<.7	<3	<3	<3	<2
MAY 28	1.7	<1	<1.0	39									
AUG 05 05	2.6 <1.0	1 <1	<1.0 <1.0	<2 <2									
DATE	2- CHLORO- NAPH- THALENE TOTAL (µg/L) (34581)	2- CHLORO- PHENOL TOTAL (µg/L) (34586)	2- NITRO- PHENOL TOTAL (µg/L) (34591)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (µg/L) (34631)	4,6- DINITRO -ORTHO- CRESOL TOTAL (µg/L) (34657)	4- BROMO- PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4- CHLORO- PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4- NITRO- PHENOL TOTAL (µg/L) (34646)	ACE- NAPHTH- ENE TOTAL (µg/L) (34205)	ACE- NAPHTH- YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA- CENE TOTAL (µg/L) (34220)	BENZENE NITRO- WATER UNFLTRD RECOVER (µg/L) (34447)
OCT 15	<2	<2	<3	<3	<3	<2	<2	<3	М	М	<.01	М	<2
DEC 10													
FEB 04													
MAR 09	<2	<2	<1	<5	<3	<2	<2	<3	М	М	<.01	М	<2
MAY 28													
AUG 05													
05													
DATE	BENZI- DINE TOTAL (µg/L) (39120)	BENZO- A- PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR- AN- THENE TOTAL (µg/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (µg/L) (34242)	BENZO- [A]- ANTHRA- CENE WAT UNF (µg/L) (34526)	BENZO- [GHI]- PERY- LENE TOTAL (µg/L) (34521)	BIS(2- CHLORO- ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2- CHLORO- ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2- CHLORO- ISO- PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (µg/L) (38932)
OCT 15 DEC	<40	М	М	М	М	М	<3	<2	<2	<19	<.02	<.1	<.01
10 FEB													
04 MAR													
09 MAY	<40	E2	3	M	E1	E2	<3	<2	<2	E2	<.02	<.1	<.01
28 AUG													
05 05													

## 07019317 MATTESE CREEK NEAR MATTESE, MO--Continued (Metropolitan Sewer District)

DATE	CHRY- SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA- CHLORO- UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI- AZINON, TOTAL (µg/L) (39570)	DI- ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (µg/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (µg/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (µg/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (µg/L) (34596)	DISUL- FOTON UNFILT RECOVER (µg/L) (39011)	ENDO- SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (μg/L) (39398)
OCT 15	М	<2	<.02	.04	<.006	М	М	М	<5		<.02	<.01	<.01
DEC 10													
FEB 04													
MAR 09	E3	<4	<.02	<.02	E.005	<2	М	<2	<5	<.10	<.01	<.01	<.01
MAY 28													
AUG 05													
05													
DATE	FLUOR- ANTHENE TOTAL (µg/L) (34376)	FLUOR- ENE TOTAL (µg/L) (34381)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA- CHLOR, TOTAL (µg/L) (39410)	HEXA- CHLORO- BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3- CD) PYRENE TOTAL (µg/L) (34403)	ISO- PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA- THION, TOTAL (μg/L) (39530)	METH- OXY- CHLOR, TOTAL (µg/L) (39480)	METHYL PARA- THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
OCT 15	М	М	<.01	<.009	<.01	<2	М	<2	<.006	E.02	<.020	<.01	<.006
DEC 10													
FEB 04													
MAR 09	5	M	<.01	<.009	<.01	<2	E3	M	<.006	<.10	<.015	<.02	<.006
MAY 28													
AUG 05													
05													
DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (µg/L) (34292)	N-NITRO -SODI- METHYL- AMINE TOTAL (µg/L) (34438)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (µg/L) (34428)	N-NITRO -SODI- PHENYL- AMINE TOTAL (µg/L) (34433)	P,P'- DDD UNFILT RECOVER (µg/L) (39360)	P,P'- DDE, TOTAL (µg/L) (39365)	P,P'- DDT UNFILT RECOVER (µg/L) (39370)	PARA- CHLORO- META CRESOL TOTAL (µg/L) (34452)	PARA- THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA- CHLORO- PHENOL TOTAL (µg/L) (39032)	PHENAN- THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
OCT 15	<4	<3	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	М	М	<3.0
DEC	\±	<b>\3</b>		<b>\</b> 3	<.007							1*1	
10 FEB													
04 MAR													
09 MAY	<4	<3	<2	<2	<.007	<.006	<.009	<3	<.01	<.1	М	3	<3.0
28 AUG													
05 05													

### 07019317 MATTESE CREEK NEAR MATTESE, MO--Continued (Metropolitan Sewer District)

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX- APHENE, TOTAL (µg/L) (39400)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µg/L) (34536)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (µg/L) (34396)	HEXA- CHLORO- BUT- ADIENE TOTAL (µg/L) (39702)	NAPHTH- ALENE TOTAL (μg/L) (34696)
OCT										
15	<.06	M	<1	<2	<2	<2	<2	<2	<3	<5
DEC										
10										
FEB										
04										
MAR										
09	<.02	4	<1	<2	<2	<2	<2	<2	<1	M
MAY										
28										
AUG										
05										
05										

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

#### 07020500 MISSISSIPPI RIVER AT CHESTER, IL

LOCATION.--Lat  $37^{\circ}54^{\circ}10^{\circ}$ , long  $89^{\circ}50^{\circ}10^{\circ}$ , in SW  $\frac{1}{4}$  sec.24, T.7 S., R.7 W., third principal meridian, Randolph County, Hydrologic Unit 07140105, on downstream side of left pier of main truss of highway bridge at Chester, 8.1 mi downstream from Kaskaskia River, and at mile 109.9 above Ohio River.

DRAINAGE AREA. -- 708,600 mi<sup>2</sup>, approximately.

#### WATER-DISCHARGE RECORDS

#### PERIOD OF RECORD. --

DISCHARGE: October 1927 to current year. Monthly discharge only for some periods, published in WSP 1311. Since August 1873, results of discharge measurements in reports of the Mississippi River Commission.

GAGE HEIGHT: July 1942 to current year. Since May 1891, in reports of the Mississippi River Commission and National Weather

Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area. WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder. Datum of gage is 341.05 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 1, 1962, nonrecording gage 0.4 mi downstream at present datum.

REMARKS.--Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River Basin and by many reservoirs and diversions for irrigation in Missouri River Basin. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 30, 1844, reached a gage height of 39.8 ft, discharge, 1,050,000  $\rm ft^3/s$ , computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	134000	143000	149000	95000	193000	154000	177000	413000	391000	235000	147000	181000	
2	127000	137000	149000	94400	270000	159000	164000	418000	356000	226000	143000	172000	
3 4	118000 106000	135000 136000	149000 150000	88900 86500	271000 244000	164000 166000	161000 164000	411000 399000	338000 332000	221000 218000	135000 128000	163000 155000	
5	99400	137000	151000	86400	210000	159000	165000	387000	324000	214000	127000	145000	
6	104000	139000	148000	91500	188000	142000	165000	370000	313000	210000	124000	134000	
7	103000	138000	140000	93500	171000	130000	166000	370000	312000	206000	124000	127000	
8 9	107000 112000	133000 125000	132000 128000	92500 93700	159000 147000	137000 157000	173000 182000	417000 495000	323000 332000	202000 196000	123000 122000	123000 121000	
10	115000	126000	125000	102000	143000	180000	199000	554000	343000	192000	116000	122000	
11	113000	128000	128000	104000	144000	188000	223000	592000	354000	190000	117000	120000	
12	116000	125000	135000		141000	199000	231000	616000	378000	189000	118000	119000	
13	132000	121000	144000	103000	140000	195000	226000	655000	399000	192000	117000	124000	
14	139000	118000	147000	104000	139000	186000	222000	678000	424000	192000	123000	125000	
15	141000	114000	155000	105000	143000	183000	221000	698000	445000	186000	130000	125000	
16 17	139000 139000	111000 110000	162000 199000	101000 96800	144000 139000	191000 194000	211000 209000	715000 732000	450000 443000	178000 165000	134000 134000	125000 123000	
18	140000	108000	223000	98100	132000	190000	213000	732000	428000	156000	138000	126000	
19	147000	104000	218000	93500	132000	190000	215000	716000	408000	155000	134000	124000	
20	151000	104000	205000	94200	134000	200000	221000	693000	382000	152000	137000	127000	
21	157000	102000	190000	93100	131000	196000	238000	659000	351000	152000	155000	130000	
22	153000	103000	175000	89900	129000	192000	277000	616000	320000	159000	158000	124000	
23	138000	99200	173000	85100	142000	189000	313000	570000	299000	159000	156000	114000	
24 25	147000 168000	96300 112000	169000 153000	85000 91400	153000 163000	181000 190000	316000 322000	524000 482000	280000 268000	158000 157000	160000 199000	112000 113000	
26 27	179000 167000	123000 118000	133000	89500	170000	205000 198000	327000 324000	453000 439000	264000 256000	154000 150000	217000 214000	108000 102000	
28	154000	118000	129000 118000	97100	162000 152000	191000	329000	440000	249000	146000	207000	94600	
29	157000	121000	99400			192000	356000	449000	242000	144000	196000	89700	
30	150000	136000	90300	94600		196000	392000	442000	240000	141000	189000	92800	
31	145000		86900	110000		188000		422000		147000	187000		
MEAN	135400	120700	150100	94350	163800	180100	236700	534100	341500	178800	148700	125400	
MAX	179000	143000	223000	110000	271000	205000	392000	732000	450000	235000	217000	181000	
MIN	99400 0.22	96300 0.19	86900 0.24	85000 0.15	129000 0.24	130000 0.29	161000 0.37	370000 0.87	240000 0.54	141000 0.29	116000 0.24	89700 0.20	
IN.										0.29	0.24	0.20	
STATIS	STICS OF 1	MONTHLY MI	EAN DATA	FOR WATER	YEARS 19	42 - 2002	, BY WATER	R YEAR (W	Y)				
MEAN	150600	157200		131200	161900	251200	334500	326100	288600	243400	161200	146800	
MAX	588300	380400		323200	331000	528400	719100	630900	597200	795300	769500	551000	
(WY)	1987		1983				1973	1995	1947	1993 69050	1993	1993	
MIN	59490	59320	51070	47810	52860	84200							
(WY)	1957		1964	1964	1964	1964	2000			1988	1988	1976	
SUMMAI	RY STATISTICS FOR 2001 CALENDAR YEAR						FOR 2002	2 WATER Y	EAR	WATER Y	ZEARS 1942	2 - 2002	
	L MEAN	MIDAN		235300	0	11 1 1	201000	)		207700	)	1002	
T.OMEG	ST ANNUAL	MEVN		590000 70700 72600						96770	)	1993	
HIGHES	ST DATLY I	MEAN		59000	0 Jun	11	732000	) Mav	17	1000000	) Aug	6 1993	
LOWEST	r DAILY M	EAN		7070	0 Jan	1	85000	Jan	24	37600	) Jan	1 1964	
ANNUA	L SEVEN-D	AY MINIMU	N.	72600	0 Jan	1	87600	) Jan	23	38500	) Dec	20 1963	
MAXIM	JM PEAK F	LOW			-		738000	May 17	,18	1000000	) Aug	7 1993	
MAXIM	JM PEAK S'	TAGE			-		40.95	May 17	, 18	49.74	a Aug	7 1993	
TNS.LYI	NIANEOUS :	LOW FLOW		4 5	- 1		82600	Jan	∠4	30000	) Dec	12 1937	
10 PER	CENT EXC	EEDS		44000	0		391000	)		401000	)		
50 PE	RCENT EXC	EEDS		179000	0		154000	)		167000	)		
90 PEI	RCENT EXC	EEDS		4.55 440000 179000 99400	0		102000	)		78200	)		

#### 07020500 MISSISSIPPI RIVER AT CHESTER, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD. --

SUSPENDED-SEDIMENT: August 1980 to current year.

REMARKS.--Sediment records poor. Sediment record was computed from transport curve.

EXTREMES FOR PERIOD OF DAILY RECORD.-SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,380 mg/L, Apr. 13, 1987; minimum daily mean, 13 mg/L, Mar. 18, 1981.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 3,330,000 tons, Feb. 25, 1997; minimum daily, 3,580 tons, Mar. 18, 1981.

EXTREMES FOR CURRENT YEAR.-SUSPENDED-SEDIMENT CONCENTRATIONS.--Maximum daily mean, 973 mg/L, May 10; minimum daily mean, 76 mg/L, Jan. 23 and 30.
SUSPENDED-SEDIMENT LOADS.--Maximum daily, 1,450,000 tons, May 10; minimum daily 17,500 tons, Jan. 23.

		MEAN			MEAN			MEAN	
DAY	MEAN DISCHARGE (cfs)	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
DAI	(CLB)	(1119/11)	(cons/day)	(CIB)	(1119/11)	(cons/day)	(CLB)	(1119/11)	(cons, day)
		OCTOBER		NO	OVEMBER		DEC	CEMBER	
1	134000	191	69300	143000	171	66200	149000	142	57000
2	127000	188	64800	137000	158	58300	149000	140	56400
	118000	176	56200	135000	149	54100	149000	132	53000
4	106000	163	46900	136000	145	53500	150000	124	50100
5	99400	153	41200	137000	143	52800	151000	117	47700
6	104000	151	42600	139000	141	52800	148000	110	44000
7	103000	151	42200	138000	141	52600	140000	105	39700
8	107000	155	45100	133000	138	49200	132000	103	37000
9	112000	159	48300	125000	130	43700	128000	102	35200
10	115000	163	50700	126000	128	43500	125000	101	34100
11	113000	159	48500	128000	129	44500	128000	105	36300
12	116000	159	49700	125000	124	41800	135000	109	39600
13	132000	175	62300	121000	119	38700	144000	114	44300
14	139000	188	70500	118000	114	36100	147000	121	47800
15	141000	190	72300	114000	114	34900	155000	127	53000
16	139000	181	68300	111000	113	33900	162000	143	62900
17	139000	174	65200	110000	110	32500	199000	323	175000
18	140000	169	64200	108000	106	30900	223000	328	198000
19	147000	166	65700	104000	106	29600	218000	278	164000
20	151000	165	67300	104000	110	30800	205000	246	136000
21	157000	176	74700	102000	113	31200	190000	220	113000
22	153000	170	69500	103000	109	30300	175000	198	93400
23	138000	165	61600	99200	105	28200	173000	202	94400
24	147000	201	79800	96300	111	28700	169000	197	90200
25	168000	280	127000	112000	148	45000	153000	177	73200
26	179000	282	136000	123000	157	52100	133000	149	53700
27	167000	254	115000	118000	130	41700	129000	140	48700
28	154000	211	88100	118000	118	37700	118000	136	43600
29	157000	210	89100	121000	116	37800	99400	119	32100
30	150000	190	77400	136000	125	45900	90300	105	25500
31	145000	174	68000				86900	96	22400

### 07020500 MISSISSIPPI RIVER AT CHESTER, IL--Continued

DAY	MEAN DISCHARGE (cfs)		SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		JANUARY		FE	BRUARY		M	ARCH	
1	95000	111	28400	193000	255	140000	154000	175	72700
2	94400	116	29800	270000	523	381000	159000	190	81700
3	88900	105	25200	271000	471	346000	164000	200	88400
4	86500	93	21800	244000	393	259000	166000	185	83000
5	86400	82	19200	210000	331	188000	159000	168	71900
6	91500	81	19800	188000	277	140000	142000	151	57800
7	93500	82	20600	171000	233	107000	130000	140	49000
8	92500	82	20600	159000	196	83900	137000	160	59100
9	93700	83	21100	147000	167	66400	157000	324	140000
10	102000	84	23100	143000	158	61300	180000	509	247000
11	104000	85	23700	144000	151	58700	188000	424	214000
12	100000	85	23100	141000	143	54400	199000	365	195000
13	103000	86	23900	140000	134	50700	195000	345	181000
14	104000	85	23800	139000	126	47200	186000	327	165000
15	105000	85	24000	143000	124	47600	183000	316	156000
16 17 18 19 20	101000 96800 98100 93500 94200	84 82 79 77 79	22900 21400 20900 19400 20000	144000 139000 132000 132000 134000	133 140 137 134 131	51800 52300 48800 47800 47600	191000 194000 190000 190000 200000	321 322 308 293 277	166000 169000 158000 150000
21	93100	81	20300	131000	128	45200	196000	251	133000
22	89900	78	19100	129000	130	45400	192000	225	116000
23	85100	76	17500	142000	142	54800	189000	199	102000
24	85000	107	24700	153000	156	64600	181000	178	87300
25	91400	118	29200	163000	178	78600	190000	197	101000
26 27 28 29 30 31	89500 87000 87100 88000 94600 110000	100 90 84 78 76 100	24100 21100 19700 18500 19300 30200	170000 162000 152000  	189 170 160 	86700 74300 65700  	205000 198000 191000 192000 196000 188000	222 203 182 175 175 165	123000 108000 93500 90900 92600 83800
		APRIL			MAY		J	UNE	
1	177000	144	69000	413000	646	721000	391000	327	345000
2	164000	124	55000	418000	626	707000	356000	295	283000
3	161000	123	53500	411000	541	600000	338000	276	252000
4	164000	131	57900	399000	468	503000	332000	261	235000
5	165000	131	58600	387000	417	436000	324000	246	215000
6	165000	128	57300	370000	367	368000	313000	231	195000
7	166000	125	56100	370000	344	344000	312000	219	185000
8	173000	206	96800	417000	487	554000	323000	245	214000
9	182000	214	105000	495000	819	1100000	332000	281	253000
10	199000	210	113000	554000	973	1450000	343000	326	302000
11	223000	229	138000	592000	803	1280000	354000	437	418000
12	231000	258	160000	616000	688	1140000	378000	547	559000
13	226000	262	160000	655000	652	1150000	399000	601	647000
14	222000	250	150000	678000	625	1150000	424000	649	743000
15	221000	232	138000	698000	599	1130000	445000	682	819000
16	211000	214	122000	715000	571	1100000	450000	618	750000
17	209000	204	115000	732000	530	1050000	443000	537	642000
18	213000	200	115000	732000	479	948000	428000	482	556000
19	215000	204	118000	716000	409	790000	408000	436	480000
20	221000	210	126000	693000	380	711000	382000	391	404000
21	238000	263	170000	659000	360	640000	351000	350	331000
22	277000	382	287000	616000	337	560000	320000	321	277000
23	313000	498	421000	570000	314	483000	299000	292	235000
24	316000	524	447000	524000	291	412000	280000	264	200000
25	322000	457	397000	482000	271	353000	268000	241	174000
26 27 28 29 30 31	327000 324000 329000 356000 392000	439 439 546 628 650	388000 384000 486000 604000 687000	453000 439000 440000 449000 442000 422000	258 246 249 346 395 360	316000 292000 296000 419000 472000 411000	264000 256000 249000 242000 240000	222 204 186 168 151	159000 141000 125000 110000 98000

### 07020500 MISSISSIPPI RIVER AT CHESTER, IL--Continued

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		JULY		I	AUGUST		SEE	PTEMBER	
1	235000	147	93000	147000	126	49800	181000	155	75700
2	226000	144	88200	143000	122	47000	172000	149	69100
3	221000	142	84700	135000	118	43100	163000	141	62000
4	218000	140	81900	128000	114	39600	155000	132	55300
5	214000	137	79400	127000	111	37900	145000	125	48800
6	210000	135	76400	124000	108	36000	134000	118	42900
7	206000	132	73400	124000	105	35100	127000	110	37700
8	202000	130	70500	123000	102	33900	123000	102	33800
9	196000	127	67100	122000	98	32500	121000	98	31900
10	192000	126	65300	116000	94	29500	122000	98	32200
11	190000	134	68700	117000	96	30200	120000	98	31700
12	189000	144	73500	118000	98	31100	119000	98	31500
13	192000	148	77000	117000	95	29800	124000	95	31600
14	192000	141	73100	123000	102	33700	125000	90	30500
15	186000	134	67000	130000	108	38100	125000	86	29000
16	178000	126	60600	134000	111	40100	125000	82	27500
17	165000	119	52900	134000	113	40700	123000	82	27300
18	156000	112	47100	138000	114	42500	126000	84	28300
19	155000	105	43900	134000	109	39300	124000	79	26400
20	152000	101	41200	137000	118	43600	127000	99	34100
21	152000	98	40300	155000	146	61000	130000	107	37700
22	159000	96	41200	158000	148	63000	124000	97	32300
23	159000	94	40200	156000	143	60500	114000	90	27500
24	158000	91	38900	160000	161	70000	112000	89	27100
25	157000	89	37800	199000	195	105000	113000	91	28000
26 27 28 29 30 31	154000 150000 146000 144000 141000 147000	89 90 90 91 104 129	37300 36500 35600 35200 39500 51300	217000 214000 207000 196000 189000 187000	201 192 180 170 164 159	118000 111000 101000 89800 83600 80500	108000 102000 94600 89700 92800	92 89 85 81 81	26900 24600 21600 19700 20300

364 SALINE CREEK BASIN

### 07020550 SOUTH FORK SALINE CREEK NEAR PERRYVILLE, MO

LOCATION.--Lat  $37^{\circ}44^{\circ}13^{\circ}$ , long  $89^{\circ}55^{\circ}42^{\circ}$ , Perry County, Hydrologic Unit 07140105, on State Route T, 0.13 mi northeast of junction of State Highways M and T, .25 mi west of I-55, 2.5 mi west of Perryville.

DRAINAGE AREA.--55.3  $\min^2$ .

PERIOD OF RECORD.--June 10, 1998 to current year.

GAGE.--Water stage recorder. Datum of gage 444.70 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	8.3 8.0 8.0 6.2 5.0	14 13 12 11	143 87 66 51 43	21 20 18 17 17	734 230 148 108 82	38 41 51 43 40	81 74 68 59 53	125 110 97 86 73	28 26 24 23 25	14 14 14 13 14	8.9 9.0 9.1 8.9 8.3	9.7 9.8 8.7 8.9 8.6	
6 7 8 9 10	6.9 6.9 5.9 4.4 7.2	9.1 9.5 9.5 9.4 9.1	92 85 61 47 37	18 18 17 17	72 63 54 49 44	38 36 35 1510 310	50 49 380 203 128	74 83 3910 904 278	25 22 21 25 26	14 13 12 12 32	8.5 8.2 7.6 7.5 7.4	8.3 8.0 8.9 7.9 8.4	
11 12 13 14 15	24 15 50 58 30	8.8 8.4 8.0 8.1 8.0	33 33 41 225 148	16 15 15 15 14	40 36 33 31 29	175 178 140 113 133	102 118 286 663 257	150 731 4100 417 174	23 25 22 21 19	31 18 15 13 12	9.8 9.1 11 13 11	8.2 8.0 7.9 8.3	
16 17 18 19 20	32 23 18 16 13	8.0 7.9 8.1 8.3 7.5	675 1640 383 206 134	14 14 13 15	27 27 25 69 247	231 140 113 557 645	162 122 100 88 91	112 1850 431 177 109	19 18 17 17 17	12 12 11 11 10	11 11 12 12 214	8.5 15 13 11 65	
21 22 23 24 25	12 11 38 98 60	7.3 7.4 8.2 19	99 87 73 58 47	14 14 16 93 61	129 90 70 59 54	269 164 125 104 334	210 115 85 78 73	80 64 55 47 42	16 16 16 16 16	10 10 10 9.9 9.6	27 19 17 15 14	29 18 14 12 10	
26 27 28 29 30 31	36 26 21 19 16 15	15 15 40 129 643	42 36 32 29 26 23	49 41 37 34 34 1060	57 48 42 	483 216 154 125 103 90	62 151 344 160 117	38 35 45 39 33	15 16 17 16 15	9.5 9.3 9.5 8.9 10 9.6	13 12 11 10 9.7 9.6	9.8 9.5 9.0 9.1 7.9	
MEAN MAX MIN	22.5 98 4.4	36.3 643 7.3	154 1640 23	57.4 1060 13	96.3 734 25	217 1510 35	151 663 49 BY WATER	468 4100 30	20.1 28 15	13.0 32 8.9	17.9 214 7.4	12.4 65 7.9	
MEAN MAX (WY) MIN (WY)	12.7 22.5 2002 7.55 2001	19.4 36.3 2002 9.23 2000	51.6 154 2002 16.0 1999	55.8 130 1999 14.8 2001	95.1 152 1999 47.9 2000	90.7 217 2002 19.7 2001	127 309 1999 17.9 2000	141 468 2002 15.8 2000	28.4 48.0 2000 13.4 2001	30.2 87.8 2001 9.27 2000	20.0 33.6 2001 6.31 2000	8.48 12.3 2002 4.69 2000	
SUMMARY	STATIST	ICS	FOR	2001 CAL	ENDAR YEA	AR.	FOR 2002	WATER YEA	AR.	WATER Y	EARS 1998	- 2002	
ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			1640 4.4 6.1  82 17 8.3	Dec 1 Oct Oct	9	106 4100 4.4 6.1 11800 <sup>a</sup> 16.04 4.4 177 25 8.5	May 1 Oct Oct May May Oct	9 4 8 8	56.7 106 20.0 4540 2.7 3.2 18700 19.13 0.99 94 15 7.4	Apr Sep 1 Sep 1 Apr Apr	2002 2000 3 1999 9 2000 7 2000 3 1999 3 1999 22 2000		

 $<sup>^{\</sup>rm a}$  From rating extended above 5,000 ft $^{\rm 3}/{\rm s}$ .

#### HEADWATER DIVERSION CHANNEL BASIN

#### 07021000 CASTOR RIVER AT ZALMA, MO

LOCATION.--Lat  $37^{\circ}08^{\circ}48^{\circ}$ , long  $90^{\circ}04^{\circ}32^{\circ}$ , in SE  $\frac{1}{4}$  sec.29, T.29 N., R.9 E., Bollinger County, Hydrologic Unit 07140107, on downstream side of left bridge pier on State Highway 51 in Zalma and 2.5 mi downstream from Perkins Creek.

DRAINAGE AREA. -- 423 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1920 to September 1991, November 8, 2000 to current year. Prior to October 1921 monthly discharge only published in WSP 1311.

REVISED RECORDS.--WSP 1147: 1922-23(M). WSP 1281: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 350.38 ft above National Geodetic Vertical Datum of 1929. January 1920 to Oct. 1, 1925, at site 500 ft upstream at datum 49.82 ft lower; Oct. 1, 1925 to Nov. 12, 1930, at site 500 ft upstream at datum 0.18 ft higher; Nov. 13, 1930 to June 8, 1953, nonrecording gage at present site and datum; June 1953 to September 1991 and October 2000 to current year, water-stage recorder at present site and datum; Dec. 18, 1949 to September 1991, auxiliary nonrecording gage 6.0 mi downstream; October 2000 to current year, auxiliary water-stage recorder 6.0 mi downstream.

 $REMARKS.--Water-discharge\ records\ good\ except\ for\ estimated\ daily\ discharges\ and\ those\ above\ 2,000\ ft^3/s,\ which\ are\ fair.$ 

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1915 reached a stage of 28.0 ft, present datum, from floodmarks by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DISCIM	GE, COD.	IC PEET PER		Y MEAN VA		10 2001 10	OBF TEMBE	K 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	127	1190	280	4450	427	729	1420	321	117	92	146
2	67	124	819	261	3920	408	643	1250	294	111	88	137
3	65	121	596	246	1770	420	577	1060	274	107	85	129
4	64	115	488	233	1180	397	516	859	252	104	e82	121
5	68	111	421	224	964	382	468	723	286	103	e80	115
6	71	107	407	227	745	371	429	632	433	99	e76	109
7	72	103	412	225	645	358	401	609	307	95	72	104
8	73	100	425	215	567	346	530	3860	261	91	69	100
9	74	98	403	209	509	1980	1310	12500	238	87	66	98
10	78	96	368	203	462	5540	1120	9190	229	93	64	95
11	146	95	339	196	423	2880	856	3550	222	98	63	92
12	180	93	340	190	392	1650	725	1530	217	204	61	89
13	220	92	373	185	363	1390	960	15200	228	253	375	86
14	264	91	551	181	338	1120	3240	21600	207	196	1210	85
15	268	90	827	175	319	905	4670	6140	190	172	295	88
16	245	90	1590	170	302	1850	2300	1990	184	149	210	99
17	218	89	5670	167	285	1790	1460	5070	189	137	177	99
18	198	87	8920	166	271	1270	1110	18400	176	128	158	108
19	182	89	3960	172	324	2040		6810	162	120	157	120
20	169	91	1540	171	1890	4380	1720	2370	154	116	200	304
21	157	89	1010	167	1980	4760	2230	1400	147	112	292	569
22	147	87	974	167	1240	2410	1750	1110	141	108	228	372
23	140	88	734	177	895	1500	1230	1030	134	109	191	285
24	138	95	591	798	726	1200	2620	806	128	104	e500	239
25	145	109	514	891	629	1180	4500	613	127	97	e400	211
26	158	127	461	693 592 526 478 456 992	572	4030	2530	528	127	92	e300	193
27	163	150	420	592	512	3720	1660	453	122	88	250	181
28	156	175	386	526	463	1980	1580	415	128	85	210	169
29	147	288	355	478		1450	1430	407	120	82	187	157
30	140	995	325	456		1140	1120	377	116	79	170	148
31	133		302	992		887		354		88	156	
MEAN	142	140	1152	324	969	1747	1512	3944	204	117	212	162
MAX	268	995	8920	992	4450	5540	4670	21600	433	253	1210	569
MIN	64	87	302	166	271	346	401	354	116	79	61	85
IN.	0.39	0.37	3.14	0.88	2.39	4.76	3.99	10.8	0.54	0.32	0.58	0.43
STATIST	ICS OF MO	NTHLY MEA	AN DATA I	FOR PERIOD	OF RECORI	O, BY WAT	ER YEAR (	WY)				
MEAN	161	404	591	714	714	1035	1025	820	425	167	108	1178
MAX	1576	2045	5507	3735	2279	3521	3645	3944	4082	1195	298	883
(WY)	1985		1983	1937	1989	1945	1927	2002	1928	1976	1982	1965
MIN	37.0	59.1	72.1	60.7	95.4	98.0	142	90.2	43.9	33.4	22.5	31.5
(WY)	1921	1921	1956	1956	1934	1941	1971	1932	1936	1936	1936	1953
SUMMARY	STATISTI	CS		FOR 2001 C	ALENDAR	YEAR	FOR 20	02 WATER	YEAR	FOR P	ERIOD OF	RECORD
ANNUAL HIGHEST	MEAN 'ANNUAL M	EAN		324			889			523 1088		1950
	ANNUAL ME									149		1941
	DAILY ME			8920	Dec 1		21600	May	14	42700 16 19 97100 <sup>a</sup> 29.92 16	Dec	4 1982
	DAILY MEA			64	Jul 1		61	Aug	12	16	Aug	31 1936
	SEVEN-DAY PEAK FLO			66 	Jul 1	LΙ	67 45600	Aug	12	07100 <sup>a</sup>	Aug	25 1936 4 1982
	PEAK FLO						27.78	Masz	13	29 92	Dec	4 1982
	ANEOUS LO						61	Διια 12	13	16	Διια	31 1936
	RUNOFF (I			10.40			28.53	1103 127		16.82	1103	31 1330
	ENT EXCEE			596			1870			1070		
	ENT EXCEE			156			261			181		
90 PERC	ENT EXCEE	DS		72			89			59		

e Estimated

a Discharge determined by indirect measurement.

#### HEADWATER DIVERSION CHANNEL BASIN

## 07021000 CASTOR RIVER AT ZALMA, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF REOCRD.--November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 07	1145	ENVIRONM	ENTAL	103	8.2	77	7.7	237	12.3	130	26.3	15.0	.21
JAN 17	0930	ENVIRONM	ENTAL	167	11.7	91	7.8	192	4.8				
MAR 25	1420	ENVIRONM	ENTAL	1100	10.0	88	7.5	115	9.1				
MAY 13	1505	ENVIRONM	ENTAL	8690	8.0	84	6.8	38	17.4	23	5.18	2.55	E.08
JUL 10 SEP	1400	ENVIRONM	ENTAL	103	6.0	79	7.8	212	29.2				
10	1630	ENVIRONM	ENTAL	94	7.2	90	7.8	208	26.1				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 07 JAN	2.69	121	122	149	0	2.79	<.1	3.6	18	138	<.04	.11	<.05
17 MAR		88	88	107	0				<10		<.04	E.06	. 25
25 MAY		50	49	60	0				34		<.04	.24	.20
JUL	1.64	23	21	26	0	1.56	<.1	3.1	348	67	E.04	1.3	.11
10 SEP		100	100	122	0				21		<.04	.22	<.05
10		111	112	137	0				22		<.04	.12	<.05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLIRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV	. 000	. 05		. 00	A1	41	50	1.0	0.4	2	. 04	. 1	-6
07 JAN 17	<.008	<.06 <.06	<.02	<.06 <.06	41 29	41 52	58 56	16	84	.2	<.04	<.1	<6 
MAR 25	.008	<.06	<.02	<.06 E.06	160	340	540						
MAY 13	.032	E.05	.05	.30	6200	7800	33000	651	2590	.5	<.04	E.1	E4
JUL 10	<.008	<.06	<.02	<.06	72	K180	740						
SEP 10	<.008	<.06	<.02	E.04	K25	46	74						

#### HEADWATER DIVERSION CHANNEL BASIN

## 07021000 CASTOR RIVER AT ZALMA, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
07	154	.09	M	40.8	E.01	<.3		2
JAN								
17								
MAR								
25								
MAY								
13	705	1.95	17	27.8	.04	<.3		21
JUL								
10								
SEP								
10								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### 07022000 MISSISSIPPI RIVER AT THEBES, IL

LOCATION.--Lat 37°13'00", long 89°27'50", in NW  $\frac{1}{4}$  sec.17, T.15 S., R.3 W., Alexander County, Hydrologic Unit 07140105, near center span on downstream side of railroad bridge at Thebes, 5.0 mi downstream from Headwater Diversion Channel, and at mile 43.7 above Ohio River.

DRAINAGE AREA. -- 713, 200 mi<sup>2</sup>, approximately.

#### WATER-DISCHARGE RECORDS

#### PERIOD OF RECORD. --

DISCHARGE: October 1932 to current year. Monthly discharge only for some periods, published in WSP 1311. Prior to April 1941,

DISCHARGE: October 1932 to current year. Monthly discharge only for some periods, published in Mor 1911. File to April 1911, published as "at Cape Girardeau, Mo".

GAGE HEIGHT: March 1933 to February 1938 and October 1939 to current year. Prior to April 1941, published as "at Cape Girardeau, Mo". Since November 1878, under name of "at Grays Point" in files of the U.S. Army Corps of Engineers; January 1879 to May of 1896, published as "at Grays Point"; since May 1896, published as "at Cape Girardea, in reports of the Mississippi River Commission; February 1891 to February 1894 and since 1904, published as "at Cape Girardeau in reports of the Mathematical Mathem the National Weather Service.

REVISED RECORDS.--WSP 1341: 1844(M). WDR MO-76-1: Drainage area, WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft above National Geodetic Vertical Datum of 1929. Mar. 17, 1933, to Dec. 21 1934, nonrecording gage; Dec. 22, 1934, to Apr. 4, 1941, water-stage recorder, at site 8.2 mi upstream at datum 4.65 ft higher; Apr. 5, 1941, to Sept. 30, 1941, nonrecording gage at present site and datum; Oct. 1, 1941, to Oct. 11, 1943, at datum 0.07 ft higher. Prior to Apr. 5, 1941, various auxiliary gages used. Since Oct. 1, 1943, former gage at Cape Girardeau used as auxiliary gage.

REMARKS.--Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in the upper Mississippi River Basin and by many reservoirs and diversions for irrigation in the Missouri River Basin. U.S. Army Corps of Engineers satellite telemeter and telemark at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of July 4, 1844, reached an elevation of 345.14 ft, present datum, at Grays Point, from floodmarks, discharge, 1,075,000  ${\rm ft}^3/{\rm s}$ , computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	136000 131000 125000 116000	146000 143000 138000 136000 137000	157000 163000 163000 164000 164000	99600 104000 101000 96200 94000	173000 272000 313000 293000 257000	157000 159000 164000 168000	206000 192000 180000 181000 182000	439000 454000 454000 441000 427000	445000 406000 375000 360000 351000	246000 240000 232000 227000 222000	149000 147000 143000 136000 130000	186000 179000 170000 162000 153000
6	102000	137000	163000	94200	222000	159000	182000	410000	339000	219000	128000	144000
7	105000	139000	157000	97700	200000	143000	181000	401000	327000	214000	125000	134000
8	105000	137000	148000	99500	183000	136000	183000	441000	330000	209000	125000	127000
9	108000	131000	140000	98500	169000	152000	193000	508000	342000	204000	125000	124000
10	112000	125000	134000	101000	160000	192000	201000	564000	353000	198000	123000	122000
11	118000	126000	132000	107000	156000	198000	221000	606000	363000	196000	118000	123000
12	118000	127000	135000	108000	154000	207000	239000	640000	378000	193000	120000	121000
13	124000	124000	143000	106000	149000	212000	243000	704000	402000	194000	122000	121000
14	141000	121000	155000	108000	147000	205000	247000	749000	420000	196000	125000	125000
15	145000	118000	164000	108000	147000	197000	245000	757000	441000	194000	128000	126000
16	145000	114000	175000	109000	149000	205000	234000	771000	453000	186000	133000	126000
17	144000	112000	227000	105000	148000	209000	224000	814000	453000	177000	135000	126000
18	142000	111000	262000	103000	142000	207000	225000	828000	444000	165000	136000	126000
19	144000	108000	261000	103000	137000	209000	228000	807000	427000	159000	139000	127000
20	148000	106000	247000	99500	146000	230000	233000	775000	405000	157000	136000	126000
21	152000	105000	232000	99500	147000	231000	248000	738000	378000	153000	144000	131000
22	156000	104000	212000	97900	140000	222000	275000	692000	347000	155000	156000	131000
23	148000	104000	202000	95800	140000	220000	318000	649000	320000	161000	158000	123000
24	141000	101000	199000	103000	151000	213000	340000	606000	301000	160000	157000	116000
25	156000	101000	187000	104000	160000	213000	344000	559000	287000	159000	171000	115000
26 27 28 29 30 31	175000 180000 168000 159000 158000 151000	115000 124000 122000 127000 140000	167000 152000 145000 131000 114000 103000	108000 105000 103000 103000 106000 117000	170000 173000 164000 	247000 242000 226000 220000 223000 220000	353000 352000 356000 373000 408000	520000 494000 482000 487000 486000 472000	280000 271000 262000 255000 249000	157000 155000 150000 147000 144000	206000 218000 213000 205000 195000 189000	114000 110000 104000 98800 96200
MEAN	137400	122600	170900	102700	177200	198500	252900	586300	358800	184300	149500	129600
MAX	180000	146000	262000	117000	313000	247000	408000	828000	453000	246000	218000	186000
MIN	102000	101000	103000	94000	137000	136000	180000	401000	249000	144000	118000	96200
IN.	0.22	0.19	0.28	0.17	0.26	0.32	0.40	0.95	0.56	0.30	0.24	0.20
STATIS	STICS OF I	MONTHLY M	EAN DATA	FOR WATER	YEARS 193	33 - 2002	, BY WATER	YEAR (W	Y)			
MEAN	149800	157200	142100	134600	164600	252500	329700	325700	290300	239600	157100	142900
MAX	589600	389000	531700	333300	350400	542000	731000	655800	584100	765500	768000	539300
(WY)	1987	1986	1983	1973	1974	1985	1973	1973	1947	1993	1993	1993
MIN	45500	50080	53850	33650	46920	80260	115600	88170	72350	73290	45000	59890
(WY)	1940	1940	1956	1940	1940	1934	1934	1934	1934	1936	1936	1937

### 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

SUMMARY STATISTICS	FOR 2001 CALEN	IDAR YEAR	FOR 2002 W	ATER YEAR	WATER YEAR	S 1933 - 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN	241400		214500		207600 446000 71730	1993 1934
HIGHEST DAILY MEAN	613000	Jun 13	828000	May 18	978000	Aug 7 1993
LOWEST DAILY MEAN	76200	Jan 2	94000	Jan 5	24700	Jan 21 1940
ANNUAL SEVEN-DAY MINIMUM	77400	Jan 1	97300	Jan 3	26700	Jan 20 1940
MAXIMUM PEAK FLOW			838000	May 18	996000	Aug 7 1993
MAXIMUM PEAK STAGE			44.32	May 18	45.91	May 23 1995
INSTANTANEOUS LOW FLOW			93300	Jan 5,6	23400	Dec 13 1937
ANNUAL RUNOFF (INCHES)	4.60		4.08		3.96	
10 PERCENT EXCEEDS	446000		414000		405000	
50 PERCENT EXCEEDS	187000		159000		167000	
90 PERCENT EXCEEDS	104000		106000		75900	

#### 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued (National Stream-Quality Accounting Network)

PERIOD OF RECORD. -- January 1973 to current year.

PERIOD OF DAILY RECORD . --

SPECIFIC CONDUCTANCE: October 1974 to September 1981. WATER TEMPERATURE: October 1974 to September 1981. SUSPENDED-SEDIMENT: October 1980 to current year.

REMARKS.--National Stream-Quality Accounting Network (NASQAN) station January 1973 to September 1986. Illinois Environmental Protection Agency station October 1986 to September 1994 (during this period, samples were analyzed by the Illinois EPA). Re-established as a NASQAN station October 1994 to current year. Sediment records fair except for estimated daily loads, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum daily, 705 microsiemens per centimeter, Aug. 5-7, 1980; minimum daily, 272 microsiemens per centimeter, Apr. 6, 1979.

WATER TEMPERATURE: Maximum daily, 31.5 °C, July 10, 11, 1975, and July 17, 1977; minimum daily, 0.0 °C, on several days during

winter periods.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 3,890 mg/L, Dec. 22, 1985; minimum daily mean, 13 mg/L, Jan. 28, 1981.

SUSPENDED-SEDIMENT LOAD: Maximum daily, 6,280,000 tons, Mar. 1, 1985; minimum daily, 2,530 tons, Jan. 28, 1981.

EXTREMES FOR CURRENT YEAR . --

SUSPENDED-SEDIMENT CONCENTRATION.--Maximum daily mean, 987 mg/L, May 11; minimum daily mean, 72 mg/L, Jan. 29, 30. SUSPENDED-SEDIMENT LOAD.--Maximum daily, 161,000 tons, May 11; minimum daily 20,100 tons, Jan. 29.

HARD- NESS TOTAL	TEMPER-	SPE- CIFIC CON-	PH WATER WHOLE FIELD	OXYGEN, DIS- SOLVED (per-	OXYGEN,	UV ABSORB- ANCE 280 NM,	UV ABSORB- ANCE 254 NM,	TURBID- ITY LAB	DIS- CHARGE, INST. (cubic			
(mg/L	ATURE	DUCT-	(stand-	cent	DIS-	WTR FLT	WTR FLT	HACH	feet	SAMPLE		
as	WATER	ANCE	ard	satur-	SOLVED	(units	(units	2100AN	per	TYPE	TIME	DATE
CaCO <sub>3</sub> )	(deg C)	(µS/cm) (00095)	units)	ation)	(mg/L)	/cm)	/cm)	(NTU)	second) (00061)			
(00900)	(00010)	(00095)	(00400)	(00301)	(00300)	(61726)	(50624)	(99872)	(00001)			
												OCT
180	16.2	501	8.0	114	11.2	.093	.127	39	144000	ENVIRONMENTAL	1415	17
100	10.2	501	0.0			.055	,	3,	111000	2111 2110111 1211112	1110	NOV
230	12.4	623	8.0	86	8.8	.069	.098	31	117000	ENVIRONMENTAL	1510	26
												JAN
240	2.5	577	7.9	151	19.8	.085	.118	18	108000	ENVIRONMENTAL	1500	14
												FEB
220	4.7	533	8.3	108	13.6	.076	.104	45	149000	ENVIRONMENTAL	1355	13
												MAR
220	3.8	564	8.1	105	13.8	.086	.115	53	158000	ENVIRONMENTAL	1420	06
										BLANK	1428	06
220	7.4	543	7.7	94	11.2			45	211000	ENVIRONMENTAL	1455	25
												APR
210	9.3	524	8.4	100	11.5	.079	.108	59	179000	ENVIRONMENTAL	1340	03
210						.082	.111	63		REPLICATE	1350	03
190	14.9	463	8.1	86	8.6	.101	.136	96	244000	ENVIRONMENTAL	1335	15
160	15.5	387	7.8	79	7.8	.117	.159	260	376000	ENVIRONMENTAL	1410	29
1.50	1	266				104	3.55	0.40	504000		1010	MAY
150	17.8 18.0	366 270	7.8	75 58	7.0 5.4	.124 .146	.166 .193	240 370	504000	ENVIRONMENTAL	1010	09
120	18.0	270	7.8	58	5.4	.146	.193	370	751000	ENVIRONMENTAL	1050	14 JUN
180	24.6	433	8.0	73	6.0	.105	.144	110	377000	ENVIRONMENTAL	1300	12
180	24.0	433	8.0	/3	6.0	.105	.144	110	377000	ENVIRONMENTAL	1300	JUL
200	30.7	500	8.2	91	6.6	.104	.144	36	197000	ENVIRONMENTAL	1510	10
200												
200												
200						.101	.111	27		REFLICATE	1320	
200	27 4	491	8 2	84	6 5	111	154	45	128000	ENT/TDOMMENTAL	1415	
200												
200	27.5	303	0.5	00	0.5		. 133	30			1123	
200	27 9	517	8 3	93	7 2	106	148	3.0	123000	ENVIRONMENTAL.	1305	
										BLANK	1313	
	27.4 27.5 27.9	491 503	8.2 8.3	  84 88	6.5 6.9	.104 .111 .112	.144 .154 .155	27 45 38	128000  123000	BLANK REPLICATE ENVIRONMENTAL REPLICATE ENVIRONMENTAL	1518 1520 1415 1425 1305	10 10 AUG 14 14 SEP 11

## 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued (National Stream-Quality Accounting Network)

DATE	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ALKA- LINITY WAT DIS FIX END FIELD (mg/L as CaCO <sub>3</sub> ) (39036)	ALKA- LINITY WAT DIS TOT IT FIELD (mg/L as CaCO <sub>3</sub> ) (39086)	BICAR- BONATE WATER DIS IT FIELD (mg/L as HCO <sub>3</sub> ) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO <sub>3</sub> ) (00452)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO <sub>2</sub> ) (00955)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)
OCT 17	45.0	17.2	5.45	29.8	123	128	156	0	27.5	.3	6.89	74.8	316
NOV 26	56.6	22.6	4.31	38.1	159	160	195	0	29.7	.3	5.48	96.6	390
JAN 14	57.7	22.2	3.92	28.4	184	184	224	0	27.8	.3	8.99	65.1	358
FEB 13	53.2	20.2	3.70	24.5	166	167	189	7	32.2	.2	7.76	57.3	326
MAR 06	55.4	21.0	3.41	26.5	167	169	206	0	33.6	.3	6.66	58.9	332
06 25	<.01 54.2	<.008 21.3	3.42	<.09 29.7	 173	 177	216	0	36.9	.2	<.13 7.27	58.2	334
APR 03	49.3	20.3	3.48	26.8	160	161	179	8	30.1	.3	6.08	60.9	323
03 15	49.8 45.9	20.6	3.52	26.9 23.6	120	122	149	0	30.7 26.7	.3	6.02 4.63	61.5 58.0	323 293
29 MAY	39.3	14.9	3.42	16.8	99	100	122	0	21.1	.2	6.88	38.3	244
09 14 JUN	36.8 30.5	13.6 9.93	3.54 3.52	13.2 9.30	134 93	128 93	157 113	0	16.1 10.4	.1 .1	6.22 6.43	35.6 25.7	228 183
12 JUL	44.5	17.4	3.51	16.8	130	133	162	0	21.1	.2	5.68	44.6	260
10	48.7	18.5	3.64	21.2	154	154	188	0	22.7	.3	7.11	59.4	307
10 AUG	48.8	18.8	4.08	21.7					22.0	.3	7.12	59.0	287
14 14 SEP	46.5 46.5	19.2 19.3	3.97 3.83	30.2 30.7	151 	151 	184	0	21.5 22.0	.3	4.46 4.34	70.4 71.7	294 300
11 11	49.0	19.4	4.10	30.2	150	149	177	2	20.4	.3	7.75	74.3	320
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)
ОСТ 17	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)	GEN, NITRITE DIS- SOLVED (mg/L as N)	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N)	PHORUS DIS- SOLVED (mg/L as P)	PHORUS ORTHO, DIS- SOLVED (mg/L as P)	PHORUS TOTAL (mg/L as P)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C)	INOR- GANIC, PARTIC. TOTAL (mg/L as C)	ORGANIC DIS- SOLVED (mg/L as C)	ORGANIC PARTIC- ULATE TOTAL (mg/L as C)
OCT 17 NOV 26	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	ORGANIC DIS- SOLVED (mg/L as C) (00681)	ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)
OCT 17 NOV 26 JAN 14	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	ORGANIC DIS- SOLVED (mg/L as C) (00681)	ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)
OCT 17 NOV 26 JAN 14 FEB 13	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608) .05	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHORUS DIS- SOLVED (mg/L as P) (00666) .140	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)	ORGANIC DIS- SOLVED (mg/L as C) (00681)	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 .09 .07 .07	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623) .41 .45 .44 .35	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .82 .98 .97 .96	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .90 1.20 2.32 3.19 2.80	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .010 .017	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28 .55 .53	PHORUS DIS- SOLVED (mg/L as P) (00666) .140 .093 .091 .111	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .079 .074 .103	PHORUS TOTAL (mg/L as P) (00665)  .26 .23 .169 .25	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694) 3.7 4.2 2.6 3.8 3.5	INOR- GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681) 30.6 3.9 4.4 4.0	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)  3.7 4.1 2.6 3.8 3.5
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 .09 .07	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623) .41 .45 .44	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .82 .98 .97	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .90 1.20 2.32 3.19	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .017	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28	PHORUS DIS- SOLVED (mg/L as P) (00666) .140 .093 .091	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .079 .074	PHORUS TOTAL (mg/L as P) (00665) .26 .23 .169	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694) 3.7 4.2 2.6 3.8	INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1	ORGANIC DIS- SOLVED (mg/L as C) (00681) 30.6 3.9 4.4	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)  3.7 4.1 2.6 3.8
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 .09 .07 .07 E.03 <.015 .05 .04	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .41 .45 .44 .35 .4141 .40	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 .98 .97 .96 .90 1.0	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .90 1.20 2.32 3.19 2.80 <.013 2.99	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .010 .017 .014 <.002 .017 .011	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28 .55 .5343	PHORUS DIS- SOLVED (mg/L as P) (00666)  .140 .093 .091 .111 .081084	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .079 .074 .103 .060 <.007 .063	PHORUS TOTAL (mg/L as P) (00665)  .26 .23 .169 .25 .23	INORG + ORGANIC PARTIC. TOTAL (mg/L as c) (00694)  3.7 4.2 2.6 3.8 3.5 3.7 4.1	INOR- GANIC, PARTIC. TOTAL (mg/L as c) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681) 30.6 3.9 4.4 4.0 4.4 4.2	ORGANIC PARTIC- ULATE TOTAL (mg/L as c) (00689)  3.7 4.1 2.6 3.8 3.5 3.7 4.0
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 03	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 .09 .07 .07  E.03 <.015 .05 .04 E.03 .06	GEN, AM- MONTA + ORGANIC DIS. (mg/L as N) (00623)  .41 .45 .44 .35 .4141 .40 .41 .47	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 .98 .97 .96 .90 1.0  1.1 1.0 1.4	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 1.20 2.32 3.19 2.80 <.013 2.99 2.44 2.47 2.11	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .017 .014 <.002 .017 .011 .012 .020	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28 .55 .5343 .50 .47 .58	PHORUS DIS- SOLVED (mg/L as P) (00666)  .140 .093 .091 .111 .081084 .061 .064	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .079 .074 .103 .060 <.007 .063	PHORUS TOTAL (mg/L as P) (00665)  .26 .23 .169 .25 .2322 .232333	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.7 4.2 2.6 3.8 3.5 3.7 4.1 4.1 4.7	INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681) 30.6 3.9 4.4 4.0 4.4 4.2 4.4	ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)  3.7 4.1 2.6 3.8 3.5 3.7 4.0 4.0 4.7
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 25 APR 03	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 .09 .07 .07 E.03 <.015 .05 .04 E.03 .06 <.04	GEN, AM- MONTA + ORGANIC DIS. (mg/L as N) (00623)  .41 .45 .44 .35 .4141 .40 .41 .47 .50	GEN, AM- MONTA + ORGANIC TOTAL (mg/L as N) (00625)  .82 .98 .97 .96 .90 1.0  1.1 1.0 1.4 1.7	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 1.20 2.32 3.19 2.80 <.013 2.99 2.44 2.47 2.11 2.13	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .017 .014 <.002 .017 .011 .012 .020 .071	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28 .55 .5343 .50 .47 .58 1.06	PHORUS DIS- SOLVED (mg/L as P) (00666)  .140 .093 .091 .111 .081084 .061 .064 .081	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .079 .074 .103 .060 <.007 .063	PHORUS TOTAL (mg/L as P) (00665)  .26 .23 .169 .25 .2322 .23 .33 .57	INORG + ORGANIC PARTIC. TOTAL (mg/L as c) (00694)  3.7 4.2 2.6 3.8 3.5 3.7 4.1 4.1 4.7 9.2	INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681)  30.6 3.9 4.4 4.0 4.4 4.2 4.4 4.8 5.3	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)  3.7 4.1 2.6 3.8 3.53.7 4.0 4.0 4.7 9.0
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 25 APR 03 03 15 29	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 .09 .07 .07  E.03 <.015 .05 .04 E.03 .06	GEN, AM- MONTA + ORGANIC DIS. (mg/L as N) (00623)  .41 .45 .44 .35 .4141 .40 .41 .47	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 .98 .97 .96 .90 1.0  1.1 1.0 1.4	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 1.20 2.32 3.19 2.80 <.013 2.99 2.44 2.47 2.11	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .017 .014 <.002 .017 .011 .012 .020	GEN,PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28 .55 .5343 .50 .47 .58	PHORUS DIS- SOLVED (mg/L as P) (00666)  .140 .093 .091 .111 .081084 .061 .064	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .079 .074 .103 .060 <.007 .063	PHORUS TOTAL (mg/L as P) (00665)  .26 .23 .169 .25 .2322 .232333	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.7 4.2 2.6 3.8 3.5 3.7 4.1 4.1 4.7	INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681) 30.6 3.9 4.4 4.0 4.4 4.2 4.4	ORGANIC PARTIC- ULATE TOTAL (mg/L as C) (00689)  3.7 4.1 2.6 3.8 3.5 3.7 4.0 4.0 4.7
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 03 29 MAY	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 .09 .07 .07 E.03 <.015 .05 .04 E.03 .06 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC DIS. (mg/L as N) (00623)  .41 .45 .44 .35 .4141 .40 .41 .47 .50 .46 .43 .36	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .82 .98 .97 .96 .90 1.0  1.1 1.0 1.4 1.7 2.2 1.5	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .90 1.20 2.32 3.19 2.80 <.013 2.99 2.44 2.47 2.11 2.13 2.19 1.64 2.96	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .017 .014 <.002 .017 .011 .012 .020 .071 .041 .055 .017	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28 .55 .5343 .50 .47 .58 1.06 .60 .88 .44	PHORUS DIS- SOLVED (mg/L as P) (00666)  .140 .093 .091 .111 .081084 .061 .089 .090 .079	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .079 .074 .103 .060 <.007 .063 .064 .050 .061 .067	PHORUS TOTAL (mg/L as P) (00665)  .26 .23 .169 .25 .2322 .23 .23 .33 .57 .62 .53 .38	INORG + ORGANIC PARTIC. TOTAL (mg/L as c) (00694)  3.7  4.2 2.6 3.8 3.5 3.7 4.1 4.7 9.2 5.8 9.4 3.4	INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681)  30.6 3.9 4.4 4.0 4.4 4.4 4.2 4.4 4.8 5.3 5.6 6.0 5.0	ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)  3.7 4.1 2.6 3.8 3.53.7 4.0 4.7 9.0
OCT	GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)  .05 .09 .07 .07 E.03 <.015 .05 .04 E.03 .06 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONTA + ORGANIC DIS. (mg/L as N) (00623)  .41 .45 .44 .35 .4141 .47 .50 .46 .43	GEN, AM- MONTA + ORGANIC TOTAL (mg/L as N) (00625)  .82 .98 .97 .96 .90 1.0  1.1 1.0 1.4 1.7 2.2 1.5	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 1.20 2.32 3.19 2.80 <.013 2.99 2.44 2.47 2.11 2.13 2.19 1.64	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .017 .014 <.002 .017 .011 .012 .020 .071 .041 .055 .017	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28 .55 .5343 .50 .47 .58 1.06 .60 .88	PHORUS DIS- SOLVED (mg/L as P) (00666)  .140 .093 .091 .111 .081084 .061 .064 .081 .089 .090	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .079 .074 .103 .060 <.007 .063 .048 .050 .061 .067	PHORUS TOTAL (mg/L as P) (00665)  .26 .23 .169 .25 .2322 .23 .33 .57 .62 .53 .38 .22	INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)  3.7 4.2 2.6 3.8 3.5 3.7 4.1 4.7 9.2 5.8 9.4	INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681)  30.6 3.9 4.4 4.0 4.4 4.4 4.8 5.3 5.6 6.0 5.0 4.8	ORGANIC PARTIC-ULATE TOTAL (mg/L as c) (00689)  3.7 4.1 2.6 3.8 3.53.7 4.0 4.7 9.0 5.5 9.3 3.3 1.8
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 03 15 29 MAY 09 14 JUN 12 JUN	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .05 .09 .07 .07 E.03 <.015 .05 .04 E.03 .06 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM-MONTA + ORGANIC DIS. (mg/L as N) (00623)  .41 .45 .44 .35 .4141 .47 .50 .46 .43 .36 .33 .31	GEN, AM- MONTA + ORGANIC TOTAL (mg/L as N) (00625)  .82 .98 .97 .96 .90 1.0  1.1 1.0 1.4 1.7 2.2 1.5 1.1 .8173	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 1.20 2.32 3.19 2.80 <.013 2.99 2.44 2.47 2.11 2.13 2.19 1.64 2.96 2.54	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .017 .014 <.002 .017 .011 .012 .020 .071 .041 .055 .017 .008008	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28 .55 .5343 .50 .47 .58 1.06 .60 .88 .44 .2047	PHORUS DIS- SOLVED (mg/L as P) (00666)  .140 .093 .091 .111 .081084 .061 .064 .081 .089 .090 .079 .106 .129	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  .125 .079 .074 .103 .060 <.007 .063 .048 .050 .061 .067 .071 .067	PHORUS TOTAL (mg/L as P) (00665)  .26 .23 .169 .25 .2322 .23 .33 .57 .62 .53 .38 .22	INORG + ORGANIC PARTIC. TOTAL (mg/L as c) (00694)  3.7 4.2 2.6 3.8 3.5 3.7 4.1 4.7 9.2 5.8 9.4 3.4 1.8 2.9	INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681)  30.6 3.9 4.4 4.0 4.4 4.2 4.4 4.8 5.3 5.6 6.0 5.0 4.8 4.6	ORGANIC PARTIC-ULATE TOTAL (mg/L as c) (00689)  3.7 4.1 2.6 3.8 3.5 3.7 4.0 4.0 4.7 9.0 5.5 9.3 3.3 1.8 2.7
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 05 25 APR 03 03 15 29 MAY 09 14 JUN 12 JUL 10	GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)  .05 .09 .07 .07 E.03 <.015 .05 .04 E.03 .06 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONTA + ORGANIC DIS. (mg/L as N) (00623)  .41 .45 .44 .35 .4141 .47 .50 .46 .43 .36 .33	GEN, AM- MONTA + ORGANIC TOTAL (mg/L as N) (00625)  .82 .98 .97 .96 .90 - 1.0 1.1 1.0 1.4 1.7 2.2 1.5 1.1 .81	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .90 1.20 2.32 3.19 2.80 <.013 2.99 2.44 2.47 2.11 2.13 2.19 1.64 2.96 2.54	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .016 .010 .017 .014 <.002 .017 .011 .012 .020 .071 .041 .055 .017	GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)  .45 .48 .28 .55 .5343 .50 .47 .58 1.06 .60 .88 .44 .20	PHORUS DIS- SOLVED (mg/L as P) (00666)  .140 .093 .091 .111 .081084 .061 .089 .090 .079 .106 .129	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .125 .079 .074 .103 .060 <.007 .063 .050 .061 .067 .067	PHORUS TOTAL (mg/L as P) (00665)  .26 .23 .169 .25 .2322 .23 .33 .57 .62 .53 .38 .22	INORG + ORGANIC PARTIC. TOTAL (mg/L as c) (00694)  3.7 4.2 2.6 3.8 3.5 3.7 4.1 4.7 9.2 5.8 9.4 3.4 1.8	INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)  <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	ORGANIC DIS- SOLVED (mg/L as C) (00681)  30.6 3.9 4.4 4.0 4.4 4.4 4.8 5.3 5.6 6.0 5.0 4.8	ORGANIC PARTIC-ULATE TOTAL (mg/L as c) (00689)  3.7 4.1 2.6 3.8 3.53.7 4.0 4.7 9.0 5.5 9.3 3.3 1.8

## 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued (National Stream-Quality Accounting Network)

DATE	PHEO- PHYTIN A, PHYTO- PHYTON (µg/L) (62360)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µg/L) (70953)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ANTI- MONY, DIS- SOLVED (µg/L as Sb) (01095)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BARIUM, DIS- SOLVED (µg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	BORON, DIS- SOLVED (µg/L as B) (01020)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)
OCT 17	24.2	170	270	48	22.4			2.2			74		
NOV 26	24.3	380	к365	405	16.1	6	.28	1.8	60	<.06	74	E.02	<.8
JAN 14	10.4	58	88	142	32.0			1.4			72		
FEB 13	14.2	K25	K54	44	32.2			1.3			52		
MAR 06	22.9	44	92	115	32.5			1.1			50		
06 25	19.4	K52	K320	K62	30.5	<1 3	.16 .05	<.2 1.2	<1 61	<.06 <.06	<7 52	<.04 .08	<.8 <.8
APR 03	25.5	50	62	48	33.2			1.3			44		
03 15	26.3	320	480	516	22.3			1.3			44 48		
29 MAY 09	27.6 19.4	K110 1400	840 2800	1060 9800	17.0 15.3			1.3			35 30		
14 JUN	12.1	1300	1850	3200	8.8			1.3			29		
12 JUL	9.9	120	K362	105	6.9	3	.23	1.7	70	<.06	40	E.02	<.8
10	17.9	46	105	K17	36.5			2.3			51 		
10 AUG	20.2				40.4			2.3			52		
14 14	22.8	400	440	1480	44.4			2.8 2.7			73 74		
SEP 11 11	27.7	21	34	85 	52.8	3	.41	2.7	71 	<.06	69 	E.02	<.8
DATE	COBALT, DIS- SOLVED (µg/L as Co) (01035)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LITHIUM DIS- SOLVED (µg/L as Li) (01130)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MOLYB- DENUM, DIS- SOLVED (µg/L as Mo) (01060)	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	STRON- TIUM, DIS- SOLVED (µg/L as Sr) (01080)	VANA- DIUM, DIS- SOLVED (µg/L as V) (01085)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)
OCT	DIS- SOLVED (µg/L as Co)	DIS- SOLVED (µg/L as Cu)	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb)	DIS- SOLVED (µg/L as Li) (01130)	NESE, DIS- SOLVED (µg/L as Mn)	DENUM, DIS- SOLVED (µg/L as Mo)	DIS- SOLVED (µg/L as Ni)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Ag)	TIUM, DIS- SOLVED (µg/L as Sr) (01080)	DIUM, DIS- SOLVED (µg/L as V) (01085)	DIS- SOLVED (µg/L as Zn)
	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb) (01049)	DIS- SOLVED (µg/L as Li)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (µg/L as Mo) (01060)	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr)	DIUM, DIS- SOLVED (µg/L as V)	DIS- SOLVED (µg/L as Zn) (01090)
OCT 17 NOV	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	DIS- SOLVED (µg/L as Li) (01130)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (µg/L as Mo) (01060)	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080)	DIUM, DIS- SOLVED (µg/L as V) (01085)	DIS- SOLVED (µg/L as Zn) (01090)
OCT 17 NOV 26 JAN	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046) <10	DIS- SOLVED (µg/L as Pb) (01049)	DIS- SOLVED (µg/L as Li) (01130) 15.2	NESE, DIS- SOLVED (μg/L as Mn) (01056)	DENUM, DIS- SOLVED (µg/L as Mo) (01060)	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080)	DIUM, DIS- SOLVED (µg/L as V) (01085)	DIS- SOLVED (µg/L as Zn) (01090)
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (μg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10 <10	DIS- SOLVED (μg/L as Pb) (01049)	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6 8.2 8.5	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (µg/L as Mo) (01060) 2.9	DIS- SOLVED (µg/L as Ni) (01065)	NIUM, DIS- SOLVED (µg/L as Se) (01145) 1.3 .9 1.1 1.0	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080) 221 280 246 186	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.3 2.2 2.7 2.1	DIS- SOLVED (µg/L as Zn) (01090)
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06	DIS- SOLVED (µg/L as Co) (01035)	DIS- SOLVED (µg/L as Cu) (01040)	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10	DIS- SOLVED (µg/L as Pb) (01049)  .10	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6	NESE, DIS- SOLVED (µg/L as Mn) (01056)	DENUM, DIS- SOLVED (μg/L as Mo) (01060)	DIS- SOLVED (µg/L as Ni) (01065)  .60	NIUM, DIS- SOLVED (µg/L as Se) (01145) 1.3 .9 1.1	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080) 221 280 246	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.3 2.2 2.7	DIS- SOLVED (µg/L as Zn) (01090)
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03	DIS- SOLVED (µg/L as Co) (01035)2422 .29	DIS- SOLVED (μg/L as Cu) (01040)  1.5   <.2 1.8	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10 <10 <10 e6 <10	DIS- SOLVED (µg/L as Pb) (01049)  .10  <.08 E.08	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6 8.2 8.5 <.3 8.8	NESE, DIS- SOLVED (µg/L as Mn) (01056)  2.2   <.1 1.7	DENUM, DIS- SOLVED (µg/L as Mo) (01060)  2.9 <.2 1.8	DIS- SOLVED (µg/L as Ni) (01065)  .60   <.06 2.32	NIUM, DIS- SOLVED (µg/L as Se) (01145) 1.3 .9 1.1 1.0 <.3 1.0	DIS- SOLVED (µg/L as Ag) (01075)  <1  <1 <1 <1	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  221 280 246 186 199 <.08 187	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.3 2.2 2.7 2.1 1.1 <.2 .8	DIS- SOLVED (µg/L as Zn) (01090)  3   <1 2
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 05 APR 03 03	DIS- SOLVED (µg/L as Co) (01035) 24 <.02 .29	DIS- SOLVED (µg/L as Cu) (01040)  1.5  <.2 1.8	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10 <10 <10 <10 56	DIS- SOLVED (µg/L as Pb) (01049)  .10  <.08 E.08	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6 8.2 8.5 <.3 8.8 9.2 8.9	NESE, DIS- SOLVED (µg/L as Mn) (01056)  2.2   <.1 1.7	DENUM, DIS- SOLVED (μg/L as Mo) (01060)  2.9 <.2 1.8	DIS- SOLVED (µg/L as Ni) (01065)  .60  <.06 2.32	NIUM, DIS- SOLVED (µg/L as Se) (01145) 1.3 .9 1.1 1.0 .3 1.0 .3 1.0	DIS- SOLVED (µg/L as Ag) (01075)  <1  <1 <1  <1 <1	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  221 280 246 186 199 <.08 187	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.3 2.2 2.7 2.1 1.1 <.2 .8 2.2 2.0 2.2	DIS- SOLVED (µg/L as Zn) (01090)  3  <1 2
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 05 APR 03 03 15	DIS- SOLVED (µg/L as Co) (01035)  .24   <.02 .29  	DIS- SOLVED (μg/L as Cu) (01040)  1.5  <.2 1.8	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10 <10 <10 57 E6	DIS- SOLVED (μg/L as Pb) (01049)  .10  <.08 E.08	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6 8.2 8.5 <.3 8.8 9.2 8.9 8.0 6.1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  2.2   <.1 1.7	DENUM, DIS- SOLVED (µg/L as Mo) (01060)  2.9 <.2 1.8	DIS- SOLVED (µg/L as Ni) (01065)  .60   <.06 2.32	NIUM, DIS- SOLVED (µg/L as Se) (01145) 1.3 .9 1.1 1.0 1.0 <.3 1.0	DIS- SOLVED (µg/L as Ag) (01075)  <1  <1 <1  	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  221 280 246 186 199 <.08 187 193 190 171 132	DIUM, DIS- SOIVED (µg/L as V) (01085) 3.3 2.2 2.7 2.1 1.1 <.2 .8 2.2 2.0 2.2	DIS- SOLVED (µg/L as Zn) (01090)  3   <1 2  
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 03 15 29 MAY	DIS- SOLVED (µg/L as Co) (01035) 24 <.02 .29	DIS- SOLVED (µg/L as Cu) (01040)  1.5  <.2 1.8	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10 <10 <10 <10 56	DIS- SOLVED (µg/L as Pb) (01049)  .10  <.08 E.08	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6 8.2 8.5 <.3 8.8 9.2 8.9	NESE, DIS- SOLVED (µg/L as Mn) (01056)  2.2   <.1 1.7	DENUM, DIS- SOLVED (µg/L as Mo) (01060)  2.9 <.2 1.8	DIS- SOLVED (µg/L as Ni) (01065)  .60  <.06 2.32	NIUM, DIS- SOLVED (µg/L as Se) (01145) 1.3 .9 1.1 1.0 .3 1.0 .3 1.0	DIS- SOLVED (µg/L as Ag) (01075)  <1  <1 <1  <1 <1	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  221 280 246 186 199 <.08 187	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.3 2.2 2.7 2.1 1.1 <.2 .8 2.2 2.0 2.2	DIS- SOLVED (µg/L as Zn) (01090)  3  <1 2
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 15 29 MAY 09	DIS- SOLVED (µg/L as Co) (01035) 24 <.02 .29	DIS- SOLVED (µg/L as Cu) (01040)  1.5  <.2 1.8	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10 <10 <10 <10 57 E6	DIS- SOLVED (µg/L as Pb) (01049)  .10  <.08 E.08	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6 8.2 8.5 <.3 8.8 9.2 8.9 8.0 6.1 4.8	NESE, DIS- SOLVED (µg/L as Mn) (01056)  2.2   <.1 1.7	DENUM, DIS- SOLVED (μg/L as Mo) (01060)  2.9 <.2 1.8	DIS- SOLVED (µg/L as Ni) (01065)  .60  <.06 2.32	NIUM, DIS- SOLVED (µg/L as Se) (01145) 1.3 .9 1.1 1.0 1.0 4.3 1.0 1.1 1.1 8 .5	DIS- SOLVED (µg/L as Ag) (01075)	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  221 280 246 186 199 <.08 187 193 190 171 132	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.3 2.2 2.7 2.1 1.1 <.2 .8 2.2 2.0 2.2 2.5	DIS- SOLVED (µg/L as Zn) (01090)  3  <1 2
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 15 29 MAY 09 14 JUN 12	DIS- SOLVED (µg/L as Co) (01035) 24 <.02 .29	DIS- SOLVED (μg/L as Cu) (01040)  1.5 <.2 1.8	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10 <10 <10 E6 <10 57 E6	DIS- SOLVED (μg/L as Pb) (01049)  .10  <.08 E.08	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6 8.2 8.5 <.3 8.8 9.2 8.9 8.0 6.1 4.8 3.2	NESE, DIS- SOLVED (µg/L as Mn) (01056)  2.2   <.1 1.7	DENUM, DIS- SOLVED (μg/L as Mo) (01060)  2.9 <.2 1.8	DIS- SOLVED (µg/L as Ni) (01065) 60 <.06 2.32	NIUM, DIS- SOLVED (µg/L as Se) (01145) 1.3 .9 1.1 1.0 .3 1.0 .3 1.0	DIS- SOLVED (µg/L as Ag) (01075)  <1 <1 <1 <1 <1 <1 <1 <1	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  221 280 246 186 199 <.08 187 193 190 171 132 113	DIUM, DIS- SOIVED (µg/L as V) (01085) 3.3 2.2 2.7 2.1 1.1 <.2 .8 2.2 2.0 2.2 2.5	DIS- SOLVED (µg/L as Zn) (01090)  3 <1 2
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 03 15 29 MAY 09 14 JUN 12 JUL 10	DIS- SOLVED (µg/L as Co) (01035) 24 <.02 .2920	DIS- SOLVED (μg/L as Cu) (01040)  1.5 <.2 1.8 1.9	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10 <10 E6 <10 <10 57 E6 11 20 <10 <10	DIS- SOLVED (μg/L as Pb) (01049)  .10  <.08 E.08   <.08	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6 8.2 8.5 <.3 8.8 9.2 8.9 8.0 6.1 4.8 3.2 7.2 11.4	NESE, DIS- SOLVED (µg/L as Mn) (01056)  2.2   <.1 1.7      	DENUM, DIS- SOLVED (µg/L as Mo) (01060)  2.9 <.2 1.8 1.9	DIS- SOLVED (µg/L as Ni) (01065)  .60  <.06 2.32    2.66	NIUM, DIS- SOLVED (µg/L as Se) (01145)  1.3 .9 1.1 1.0 1.0 <.3 1.0 1.1 1.1 .8 .5 .6 .5 .9 1.2	DIS- SOLVED (µg/L as Ag) (01075)  <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 < < < < < < < < <	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  221 280 246 186 199 <.08 187 193 190 171 132 113 147 181	DIUM, DIS- SOLVED (µg/L as V) (01085)  3.3 2.2 2.7 2.1 1.1 <.2 .8 2.2 2.0 2.2 2.5 2.1 3.4 3.3	DIS- SOLVED (µg/L as Zn) (01090)  3 <1 2 <1 2 <1 <1 <1 <1
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 15 29 MAY 09 14 JUN 12 JUL 10 10	DIS- SOLVED (μg/L as Co) (01035) 24 <.02 .292020	DIS- SOLVED (µg/L as Cu) (01040)  1.5 <.2 1.8 1.9 1.9	DIS- SOLVED (µg/L as Fe) (01046) <10 E6 E8 <10 <10 <10 <10 20 <10 57 E6 11 20 <10	DIS- SOLVED (µg/L as Pb) (01049)  .10  <.08 E.08   <.08	DIS- SOLVED (µg/L as Li) (01130) 15.2 19.5 11.6 8.2 8.5 <.3 8.8 9.2 8.9 8.0 6.1 4.8 3.2 7.2	NESE, DIS- SOLVED (µg/L as Mn) (01056)  2.2   <.1 1.7	DENUM, DIS- SOLVED (μg/L as Mo) (01060)  2.9 <.2 1.8 1.9	DIS- SOLVED (µg/L as Ni) (01065) 60 <.06 2.32 2.66	NIUM, DIS- SOLVED (µg/L as Se) (01145)  1.3 .9 1.1 1.0 1.0 <.3 1.0 1.1 1.1 .8 .5 .6 .5 .9 1.2	DIS- SOLVED (µg/L as Ag) (01075)  <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	TIUM, DIS- SOLVED (µg/L as Sr) (01080)  221 280 246 186 199 <.08 187 193 190 171 132 113 147 181	DIUM, DIS- SOLVED (µg/L as V) (01085) 3.3 2.2 2.7 2.1 1.1 <.2 .8 2.2 2.0 2.2 2.5 2.1 2.6 3.4	DIS- SOLVED (µg/L as Zn) (01090)  3  <1 2    <1 2

## 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued (National Stream-Quality Accounting Network)

DATE	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLITRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLITRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)
OCT 17	<.002	.034	<.002	<.005	.225	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.067
NOV 26	<.002	.027	.010	<.005	.085	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.051
JAN 14	<.006	.039	.005	<.005	.151	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.052
FEB 13	<.006	.025	<.004	<.005	.190	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.053
MAR 06	<.002	.027	<.002	<.005	.131	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.026
06 25	<.006	.015	.016	<.005	.093	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.036
APR 03	<.006	<.010	.005	<.005	.099	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.036
03 15 29	<.006 <.006	.052 .434	<.004 .040	<.005 <.005	.304 4.35	<.010 <.010	<.002 <.002	<.041 <.041	<.020 <.020	<.005 <.005	<.018 <.020	<.003 <.003	E.035 E.105
MAY 09 14	<.006 <.006	.322	.031	<.005 <.005	3.03 4.09	<.010 <.010	<.002 <.002	E.005 E.004	<.020 E.004	<.005 <.005	<.018 E.015	<.003 <.003	E.174 E.259
JUN 12	<.006	.679	.019	<.005	2.80	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.177
JUL 10	<.006	.117	.015	<.005	1.04	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.221
10	<.006 <.006	<.006	<.004	<.005 <.005	<.007 1.14	<.010 <.010	<.002	<.041 <.041	<.020	<.005 <.005	<.018 E.010	<.003	<.006 E.165
AUG 14 14	<.006	.016	.005	<.005	.354	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.097
SEP 11 11	<.006 <.006	.014 <.006	<.004 <.004	<.005 <.005	.180 <.007	<.010 <.010	<.002 <.002	<.041 <.041	<.020 <.020	<.005 <.005	<.018 <.018	<.003 <.003	E.053
DATE	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO- LACHLOR WATER DISSOLV (μg/L) (39415)
OCT	AZINON, DIS- SOLVED (µg/L)	ELDRIN DIS- SOLVED (µg/L) (39381)	FOTON WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER FLTRD 0.7 µ GF, REC (µg/L)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)
	AZINON, DIS- SOLVED (µg/L) (39572)	ELDRIN DIS- SOLVED (µg/L)	FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L)	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)
OCT 17 NOV	AZINON, DIS- SOLVED (µg/L) (39572)	ELDRIN DIS- SOLVED (µg/L) (39381)	FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLITRD 0.7µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)
OCT 17 NOV 26 JAN 14 FEB 13	AZINON, DIS- SOLVED (µg/L) (39572) .007	ELDRIN DIS- SOLVED (µg/L) (39381) <.005	FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677) <.02	WATER FLITRD 0.7 µ GF, REC (µg/L) (82668) <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663) <.009	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672) <.005	WATER DISS REC (µg/L) (04095) < .003 < .003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7μ GF, REC (μg/L) (82666) <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006	LACHLOR WATER DISSOLV (µg/L) (39415) .047
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06	AZINON, DIS- SOLVED (µg/L) (39572) .007 .007	ELDRIN DIS- SOLVED (µg/L) (39381) <.005 <.005	FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677) < .02 < .02 < .02	WATER FLIRD 0.7 µ GF, REC (µg/L) (82668) < .002 < .002 < .002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663) <.009 <.009	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672) <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666) <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .047 .031 .051
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 25	AZINON, DIS- SOLVED (μg/L) (39572) .007 .007 <.005	ELDRIN DIS- SOLVED (µg/L) (39381) <.005 <.005 <.005	FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677) < .02 < .02 < .02 < .02	WATER FLIRD 0.7 µ GF, REC (µg/L) (82668) <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663) <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004 <.004	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666) <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .047 .031 .051
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 25 APR 03	AZINON, DIS- SOLVED (μg/L) (39572)  .007 .007 .005 .005 .005 .005 .005 .00	ELDRIN DTS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677)	WATER FLITRD 0.7 μ GF, REC (μg/L) (82668)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) < .005 < .005 < .005 < .005 < .005 < .005 < .005 < .005 < .005 < .005 < .005 < .005 < .005 < .005 < .005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) (39341) (3904 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 0 0	URON WATER FLITRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006 <.006 <.020 <.006053 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .047 .031 .051 .068 .053039
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 03	AZINON, DIS- SOLVED (µg/L) (39572)  .007 .007 .005 .005 E.003 .005 E.003	ELDRIN DTS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677)   <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	WATER FLITRD 0.7 μ GF, REC (μg/L) (82668)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FITTRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005005 <.005005 <.005005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004 <.004 <.004  <.004 <.004  <.004	URON WATER FITRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 <.006 <.006 <.020 <.006  .053 <.006  .053	LACHLOR WATER DISSOLV (µg/L) (39415)  .047 .031 .051 .068 .053039 .029 .066
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 25 APR 03 03 15	AZINON, DIS- SOLVED (μg/L) (39572)  .007 .007 .005 .005 .005 E.003 .008	ELDRIN DIS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITED 0.7 µ GF, REC (µg/L) (82677)   <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	WATER FLTRD 0.7 μ GF, REC (μg/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)   <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004 <.004 <.004  <.004  <.004  <.004  <.004	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 <.006 <.006 <.020 <.006 	LACHLOR WATER DISSOLV (µg/L) (39415)  .047 .031 .051 .068 .053039 .029066 .652
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 06 25 APR 03 03 15 29 MAY	AZINON, DIS- SOLVED (µg/L) (39572)  .007 .007 .005 .005 E.003 .005 E.003	ELDRIN DTS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITRD 0.7 µ GF, REC (µg/L) (82677)   <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	WATER FLITRD 0.7 μ GF, REC (μg/L) (82668)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FITTRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005005 <.005005 <.005005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341) <.004 <.004 <.004 <.004  <.004 <.004  <.004	URON WATER FITRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667) <.006 <.006 <.006 <.020 <.006  .053 <.006  .053	LACHLOR WATER DISSOLV (µg/L) (39415)  .047 .031 .051 .068 .053039 .029 .066
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 05 25 APR 03 03 15 29 MAY 09 14 JUN	AZINON, DIS- SOLVED (µg/L) (39572)  .007 .007 .005 .005 E.003 .005 E.003 .008	ELDRIN DTS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FILTRD 0.7 µ GF, REC (µg/L) (82677)   <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	WATER FLITRD 0.7 μ GF, REC (μg/L) (82668)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)   <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FITRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686) < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050	PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006 <.020 <.06053 <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .047 .031 .051 .068 .053039 .029 .066 .652 .396
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 25 APR 03 03 15 29 MAY	AZINON, DIS- SOLVED (μg/L) (39572)  .007 .007 .005 .005 .005 E.003 .008 .011 .009	ELDRIN DTS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITED 0.7 µ GF, REC (µg/L) (82677)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)   <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006 <.006 <.020 <.006053 <.006 <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .047 .031 .051 .068 .053039 .029066 .652 .396 .680
OCT 17 NOV 26 JAN 14 FEB 13 MAR 06 05 25 APR 03 03 15 29 MAY 09 14 JUN 12 JUN 12 JUL 10	AZINON, DIS- SOLVED (µg/L) (39572)  .007 .007 .005 .005 E.003 .008 .011 .009 .005 E.003 .005 E.003	ELDRIN DTS- SOLVED (µg/L) (39381)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	FOTON WATER FLITED 0.7 µ GF, REC (µg/L) (82677)   <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	WATER FLITRD 0.7 µ GF, REC (µg/L) (82668)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLITED 0.7 µ GF, REC (µg/L) (82672)   <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005  <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FITTRD 0.7µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686) <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006 <.006 <.020 <.006053 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  .047 .031 .051 .068 .053039 .029 .066 .652 .396 .680 .727 .211 <.013

#### 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued (National Stream-Quality Accounting Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			WATER-	QUALITY DA	ATA, WATE	R YEAR OC	TOBER 200	1 TO SEPT	EMBER 200	2			
DATE	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)
OCT 17	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.01	<.004	<.010	<.011
NOV 26	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	М	<.004	<.010	<.011
JAN 14	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	М	<.004	<.010	<.011
FEB 13	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	М	<.004	<.010	<.011
MAR 06	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.001	<.010	<.011
06													
25 APR	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	М	<.004	<.010	<.011
03 03	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	M 	<.004	<.010	<.011
15 29	.010 <.010	<.002 <.002	<.007 <.007	<.003 <.003	<.010 <.010	<.004 <.004	<.022 <.022	<.006 <.006	<.011 <.011	M <.01	<.004 <.004	<.010 <.010	<.011 <.011
MAY 09	.009	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	М	<.004	<.010	<.011
14 JUN	.020	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	M	<.004	<.010	<.011
12	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011
JUL 10	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011
10 10	<.006 <.006	<.002 <.002	<.007 <.007	<.003 <.003	<.010 <.010	<.004 <.004	<.022 <.022	<.006 <.006	<.011 <.011	<.01 E.01	<.004 <.004	<.010 <.010	<.011 <.011
AUG 14	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011
14 SEP													
11 11	<.006 <.006	<.002 <.002	<.007 <.007	<.003 <.003	<.010 <.010	<.004 <.004	<.022 <.022	<.006 <.006	<.011 <.011	E.01 <.01	<.004 <.004	<.010 <.010	<.011 <.011
DATE	PRO PARG: WAT! FLT! 0.7 GF, 1 (µg,	ITE SI- ER MAZI RD WAT µ DIS REC REC /L) (µg	NE, WATER, FLTS, 0.7 S, 0.7 S, GF,	JRON BACTER WATE TRD FLTE μ 0.7 REC GF, I	$^{\mathrm{LL}}$ BUF $^{\mathrm{RR}}$ WAT $^{\mathrm{RD}}$ FLT $^{\mathrm{\mu}}$ 0.7 REC GF, $^{^{\prime}}$ L) ( $^{\mathrm{\mu}}$ g	OS BENC ER WAT RD FLT µ 0.7 REC GF, /L) (µg	CARB LATER WATER WATER FLT   \[ \mu \] 0.7  \[ \text{REC GF,} \] (\mu \]	E FLU ER ALI RD WAT μ 0.7 REC GF, /L) (μg	N NATU FLT DI μ SOLV REC (μg /L) as	IUM SURAL SIES- DI /ED % FI /L TH U) .062	IAM. MEN NER SUS HAN PEN mm (mg	TT, - DED /L)	
OCT 17	<	02 .0	17 <.	02 <.03	34 <.	02 <.0	05 <.0	002 <.0	109 -	- 88	3 11	.0	
NOV 26	<.0	02 .0	24 <.	02 <.03	34 <.	02 <.0	105 <.0	102 <.0	109 2.	10 92	2 8	5	
JAN 14	<	02 .0	173 <.	02 <.03	34 <.	02 <.0	105 <.0	002 <.0	109	- 61	4	.6	
FEB 13	<	02 .0	42 <.	02 <.03	34 <.	02 <.0	105 <.0	102 <.0	109	- 56	5 13	1	
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JUL 10...

AUG 14...

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified.

<sup>&</sup>lt;--Numeric result less than the value shown.

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued (National Stream-Quality Accounting Network)

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)		SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		OCTOBER		NC	VEMBER		DEC	CEMBER	
1	136000	188	69000	146000	125	49300	157000	171	72300
2	131000	223	78900	143000	131	50600	163000	121	53300
3	125000	243	81700	138000	141	52400	163000	101	44400
4	116000	223	70100	136000	139	50800	164000	108	48000
5	106000	204	58600	137000	137	50500	164000	105	46400
6	102000	196	54100	137000	141	52200	163000	96	42300
7	105000	174	49100	139000	125	46900	157000	93	39600
8	105000	157	44500	137000	122	45100	148000	97	38900
9	108000	140	41000	131000	127	44900	140000	105	39400
10	112000	133	40400	125000	127	42900	134000	108	39000
11	118000	149	47400	126000	123	41800	132000	109	38900
12	118000	174	55500	127000	116	39700	135000	98	35700
13	124000	180	60200	124000	121	40400	143000	96	36900
14	141000	211	80400	121000	111	36200	155000	95	39900
15	145000	217	84800	118000	98	31200	164000	105	46500
16	145000	170	66800	114000	89	27400	175000	148	70700
17	144000	150	58200	112000	90	27100	227000	307	189000
18	142000	130	49900	111000	97	29100	262000	381	269000
19	144000	122	47400	108000	104	30200	261000	354	250000
20	148000	106	42500	106000	105	30100	247000	310	207000
21 22 23 24 25	152000 156000 148000 141000 156000	119 129 126 143 166	48800 54500 50400 54700 70000	105000 104000 104000 101000 101000	98 98 94 93 111	27700 27700 26400 25500 30600	232000 212000 202000 199000 187000	293 260 252 	183000 149000 137000 e128000 e108000
26 27 28 29 30 31	175000 180000 168000 159000 158000 151000	163 180 168 156 150	77100 87800 76400 67000 64200 53400	115000 124000 122000 127000 140000	145 158 156 143 140	45100 52800 51400 48700 53200	167000 152000 145000 131000 114000 103000	   	e84900 e70600 e66600 e51700 e37400 e29800
		JANUARY		FE	BRUARY		И	MARCH	
1 2 3 4 5	99600 104000 101000 96200 94000	   91	e26600 e29100 e26400 e23300 23100	173000 272000 313000 293000 257000	363 426 497 549 479	173000 314000 419000 435000 333000	157000 159000 164000 168000 168000	162 154 156 204 188	68900 66100 69200 92700 85500
6	94200	97	24800	222000	403	242000	159000	145	62300
7	97700	90	23700	200000	321	174000	143000	141	54400
8	99500	80	21500	183000	240	119000	136000	141	51600
9	98500	82	21900	169000	184	84300	152000	216	91800
10	101000	86	23300	160000	159	68500	192000	561	291000
11	107000	92	26700	156000	141	59100	198000	467	250000
12	108000	92	26700	154000	129	53600	207000	360	200000
13	106000	90	25800	149000	145	58700	212000	280	160000
14	108000	92	26700	147000	127	50600	205000	274	151000
15	108000	86	25000	147000	129	51000	197000	281	149000
16	109000	82	24200	149000	114	45900	205000	336	186000
17	105000	94	26800	148000	122	48700	209000	300	170000
18	103000	83	23100	142000	131	50100	207000	294	164000
19	103000	78	21500	137000	134	49600	209000	270	152000
20	99500	79	21300	146000	141	55600	230000	249	154000
21	99500	76	20300	147000	126	50000	231000	228	142000
22	97900	80	21100	140000	143	54100	222000	200	120000
23	95800	87	22500	140000	140	52900	220000	189	112000
24	103000	117	32600	151000	122	49700	213000	171	98400
25	104000	125	35300	160000	130	56500	213000	166	95500
26 27 28 29 30 31	108000 105000 103000 103000 106000 117000	99 86 73 72 72 88	28600 24400 20500 20100 20600 28500	170000 173000 164000 	145 145 159 	66500 67600 70200  	247000 242000 226000 220000 223000 220000	210 228 186 172 178 174	140000 149000 114000 102000 107000 103000

# 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued (National Stream-Quality Accounting Network) SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		APRIL			MAY		J	UNE	
1	206000	178	99000	439000	639	758000	445000	369	444000
2	192000	171	88900	454000	681	835000	406000	337	370000
3	180000	144	70300	454000	682	835000	375000	308	312000
4	181000	131	63800	441000	587	700000	360000	263	256000
5	182000	126	61600	427000	490	565000	351000	247	235000
6	182000	129	63300	410000	376	416000	339000	224	204000
7	181000	125	61200	401000	333	360000	327000	220	194000
8	183000	133	65500	441000	405	487000	330000	202	180000
9	193000	169	87800	508000	686	944000	342000	222	205000
10	201000	170	92200	564000	891	1360000	353000	236	225000
11	221000	180	108000	606000	987	1610000	363000	253	248000
12	239000	231	149000	640000	766	1320000	378000	302	309000
13	243000	240	158000	704000	675	1280000	402000	447	486000
14	247000	276	184000	749000	601	1210000	420000	550	623000
15	245000	271	179000	757000	546	1120000	441000	570	679000
16	234000	228	144000	771000	588	1220000	453000	641	785000
17	224000	203	123000	814000	562	1240000	453000	661	808000
18	225000	183	111000	828000	534	1190000	444000	582	698000
19	228000	194	119000	807000	490	1070000	427000	431	497000
20	233000	214	134000	775000	407	852000	405000	368	402000
21	248000	214	143000	738000	357	712000	378000	329	336000
22	275000	243	181000	692000	318	594000	347000	276	259000
23	318000	366	315000	649000	299	525000	320000	258	223000
24	340000	457	421000	606000	269	440000	301000	264	214000
25	344000	473	440000	559000	274	413000	287000	248	191000
26 27 28 29 30 31	353000 352000 356000 373000 408000	478 472 509 586 600	456000 449000 490000 591000 661000	520000 494000 482000 487000 486000 472000	266 267 266 287 372 403	373000 356000 347000 378000 488000 513000	280000 271000 262000 255000 249000	216 197 172 155 145	161000 144000 122000 106000 97600
		JULY		1	AUGUST		SEP	TEMBER	
1	246000	138	91900	149000	85	33900	186000	127	63900
2	240000	141	91100	147000	81	32000	179000	111	53500
3	232000	145	90800	143000	85	32600	170000	103	47000
4	227000	129	78800	136000	89	32700	162000	110	48100
5	222000	127	76200	130000	101	35400	153000	110	45600
6	219000	134	79400	128000	111	38200	144000	116	45000
7	214000	133	76900	125000	118	39800	134000	121	43700
8	209000	129	72600	125000	149	50100	127000	131	44900
9	204000	129	71000	125000	159	53500	124000	131	43700
10	198000	128	68700	123000	128	42500	122000	110	36400
11	196000	136	72100	118000	108	34400	123000	101	33300
12	193000	142	73800	120000	103	33200	121000	96	31300
13	194000	125	65600	122000	127	41800	121000	94	30600
14	196000	121	63900	125000	150	50900	125000	111	37400
15	194000	111	57600	128000	117	40300	126000	120	40700
16	186000	104	52100	133000	102	36400	126000	96	32800
17	177000	99	47500	135000	109	39900	126000	104	35300
18	165000	105	46600	136000	113	41500	126000	123	41700
19	159000	101	43400	139000	118	44000	127000	121	41600
20	157000	95	40200	136000	107	39000	126000	116	39400
21	153000	97	40200	144000	128	49400	131000	106	37400
22	155000	90	37600	156000	91	38200	131000	105	37100
23	161000	85	37000	158000	104	44200	123000	122	40500
24	160000	84	36400	157000	110	46600	116000	94	29400
25	159000	89	38500	171000	117	54100	115000	102	31400
26 27 28 29 30 31	157000 155000 150000 147000 144000	83 75 78 78 92 108	35100 31300 31700 30900 35700 42000	206000 218000 213000 205000 195000 189000	156 174 185 187 170 148	86800 103000 107000 103000 89400 75500	114000 110000 104000 98800 96200	82 83 90 91 97	25300 24600 25500 24400 25200

e Estimated

### 07035800 ST. FRANCIS RIVER NEAR MILL CREEK, MO

LOCATION.--Lat  $37^{\circ}30^{\circ}09^{\circ}$ , long  $90^{\circ}27^{\circ}28^{\circ}$ , in NE  $\frac{1}{4}$  sec.35, T.33 N., R.5 E., Madison County, Hydrologic Unit 08020202, on downstream side of Highway E bridge, 8.7 mi southwest of Mill Creek, and 2.9 mi downstream from Little St. Francis River.

DRAINAGE AREA.--505 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1987 to September 1997, October 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 556.27 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHA	RGE, CUBI	C FEET PE		WATER Y		BER 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 9.1 8.4 7.6 8.6	47 44 40 37 32	995 535 390 316 270	196 184 173 163 159	10100 2500 1410 950 701	337 367 640 571 492	500 447 427 375 336	942 875 802 640 527	236 205 183 162 159	31 26 24 26 39	19 57 37 23 17	44 39 34 29 26
6 7 8 9 10	9.9 11 11 12 13	28 27 28 27 26	380 527 425 341 286	168 170 163 161 162	591 529 459 408 369	455 423 388 11200 4480	310 298 4460 3010 1420	509 947 27600 14200 3590	175 161 137 125 141	30 24 20 18 18	15 13 11 14 20	34 42 40 39 38
11 12 13 14 15	16 30 53 121 104	26 24 22 22 22	252 244 339 922 1330	157 151 145 138 133	327 295 271 248 233	1870 2590 1750 1190 928	922 699 e1230 e6600 2290	1660 4130 39600 6270 1910	147 153 232 212 150	20 46 56 59 66	22 23 40 721 244	37 31 21 16 15
16 17 18 19 20	106 80 61 51 44	21 20 20 20 20 19	3860 11500 3830 1700 1020	126 122 120 126 129	220 206 192 443 3660	2070 1430 1010 3940 7890	1370 924 693 593 594	1250 30100 8600 2260 1270	118 101 85 72 66	42 30 25 21 20	118 72 58 64 1970	15 19 24 78 104
21 22 23 24 25	37 32 34 267 495	19 20 20 42 159	731 600 530 444 380	126 129 144 343 511	1730 985 695 560 479	2950 1580 1130 890 1910	961 937 629 1060 2410	848 622 488 398 337	58 52 45 41 38	20 18 29 49 29	871 434 311 268 236	140 127 89 58 44
26 27 28 29 30 31	260 155 105 80 64 55	160 126 131 286 1790	333 301 279 255 228 204	444 388 347 320 310 4880	455 402 360 	2740 1570 1090 852 700 583	1240 1260 2970 1720 979	289 256 354 801 381 285	35 32 39 47 40	21 17 15 13 11	160 117 90 72 60 52	40 37 34 31 27
MEAN MAX MIN IN.	75.9 495 7.6 0.17 TICS OF MC	110 1790 19 0.24	1089 11500 204 2.49	354 4880 120 0.81	1064 10100 192 2.19	1936 11200 337 4.42	1389 6600 298 3.07	4927 39600 256 11.2	115 236 32 0.25	28.2 66 11 0.06	201 1970 11 0.46	45.1 140 15 0.10
MEAN MAX (WY) MIN (WY)	90.4 438 1994 12.9 2001	771 3774 1994 23.9 2000	826 2428 1991 32.7 1990	791 2187 1993 141 2000	845 1745 1989 153 1996	888 1936 2002 304 2001	1098 2890 1994 159 2000	1135 4927 2002 64.5 1987	281 899 1997 16.4 1988	95.5 200 2001 28.2 2002	71.3 201 2002 4.18 1988	118 1153 1993 11.5 1987
SUMMAR	Y STATISTI	CS	FOR	2001 CALE	NDAR YEAR		FOR 2002	WATER YEAR		FOR PI	ERIOD OF	RECORD
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN ANNUAL 10 PER 50 PER	MEAN T ANNUAL M ANNUAL M T DAILY MEA SEVEN-DAY M PEAK FLC M PEAK STA TANEOUS LC RUNOFF (I CENT EXCER CENT EXCER CENT EXCER	EAN EAN AN MINIMUM AGE DW FLOW ENCHES) EDS		342 11500 7.6 9.4   9.20 733 110 17	Dec 17 Oct 4 Oct 1		39600 7.6 9.4 68600 26.47 7.2 25.52 1740 168 20	May 13 Oct 4 Oct 1 May 13 May 13 Oct 4,5		597 949 194 72000 1.8 2.2 130000 <sup>a</sup> 33.10 1.7 16.05 1150 182 16	Aug Aug Nov Nov	2002 2000 14 1993 18 1988 16 1988 14 1993 14 1993 18 1988

e Estimated  $$^{\rm a}$$  Discharge determined by indirect measurement.

378 ST. FRANCIS RIVER BASIN

## 07036100 ST. FRANCIS RIVER NEAR SACO, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $37^{\circ}23^{\circ}06^{\circ}$ , long  $90^{\circ}28^{\circ}27^{\circ}$ , in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.10, T.31 N., R.5 E., Madison County, Hydrologic Unit 08020202, 3.5 mi northwest of Saco, and 1.3 mi downstream from Twelve Mile Creek.

DRAINAGE AREA.--664 mi<sup>2</sup>.

PERIOD OF RECORD--November 1983 to September 1989, November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 13	1610 ENVIRONMENTAL		ENTAL	96	13.0	122	7.0	252	11.8	120	24.9	14.2	2.21
JAN 23	0850	ENVIRONMENTAL		234	13.9	109	7.9	250	3.8				
MAR 06	1315	ENVIRONMENTAL		781	15.3	125	8.2	180	5.8				
MAY 15	1700 ENVIRONMENT 1510 ENVIRONMENT		ENTAL	2750	8.7	93	7.5	124	17.4	56	12.1	6.23	.79
JUL 15			ENTAL	227	8.1	105	7.9	262	27.6				
SEP 04	1430	ENVIRONMENTAL		195	7.1	93	7.5	196	28.5				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 13	5.03	88	89	109	0	27.3	E.1	10.8	58	124	<.04	.21	<.05
JAN 23		97	97	119	0				<10		<.04	.18	.20
MAR 06		71	70	85	0				<10		<.04	.12	.11
MAY 15	2.81	47	46	56	0	2.10	<.1	10.1	15	82	<.04	.27	. 29
JUL 15		118	117	143	0				<40		<.04	.17	<.05
SEP 04		75	76	93	0				<10		<.04	.22	E.03
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV	. 000	. 05		. 05	W.O.	***	757	10	01	_	. 04	, 1	
13 JAN	<.008	<.06	<.02	<.06	K2	K3	K1	19	21	.6	<.04	<.1	<6
23 MAR	<.008	<.06	<.02	<.06	K1	K2	30						
06 MAY	E.005	<.06	<.02	<.06	<1	K1	К7						
15 JUL	<.008	<.06	E.01	.07	K180	900	380	123	270	. 4	<.04	<.1	<6
15 SEP	<.008	<.06	<.02	<.06	К6	K8	55						
04	<.008	<.06	.02	<.06	K5	K11	К9						

# 07036100 ST. FRANCIS RIVER NEAR SACO, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
13	53	.73	1	11.7	<.01	E.2		2
JAN								
23								
MAR								
06								
MAY	1.55	4 00	1.0		0.7	- 0		2
15	166	4.07	19	15.7	<.01	E.2		3
JUL 15								
SEP								
04								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

#### 07037000 BIG CREEK AT DES ARC, MO

LOCATION.--Lat  $37^{\circ}17^{\circ}35^{\circ}$ , long  $90^{\circ}37^{\circ}45^{\circ}$ , in SE  $\frac{1}{4}$  sec.8, T.30 N., R.4 E., Iron County, Hydrologic Unit 08020202, at bridge on State Highway 143 at north edge of Des Arc, 420 ft above Black Creek, and 6.0 mi above Pond Creek.

DRAINAGE AREA. -- 99.6 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1983 to Sept. 30, 1997, Oct. 1, 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 507.89 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 9.2 8 1 6.9 6.3 5 8 70 17 25.9 49.3 78.0 53.1 MEAN 49.3 18.9 MAX 5 8 MTN 2.83 2.09 IN. 0.30 0.90 0.55 0.23 0.61 STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY) MEAN 62.1 39.5 26.9 30.8 MAX (WY) MIN 16.1 22.5 25 5 37.0 38.5 83.0 45.3 28.9 15.0 11.9 7 67 6.50 (WY) SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR FOR PERIOD OF RECORD ANNUAL MEAN 95.8 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 55.6 HIGHEST DAILY MEAN Jul 29 May 13 May 13 2002 LOWEST DAILY MEAN Sep 5.8 Aug 10 2.8 Sep 4 1999 1 1999 ANNUAL SEVEN-DAY MINIMUM 8.0 Sep 28 Aug Sep May 13 MAXIMUM PEAK FLOW 25700a Nov 14 1993 MAXIMUM PEAK STAGE ---13.54 May 13 16.85 Nov 14 1993 2.5 INSTANTANEOUS LOW FLOW Aug 10,11 Sep 4 1999 ANNUAL RUNOFF (INCHES) 13.06 31.63 20.15 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 

 $<sup>^{\</sup>rm a}\,$  Discharge determined by indirect measurement.

# 07037300 BIG CREEK AT SAM A. BAKER STATE PARK (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°15'40", long 90°30'23", in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.21, T.30 N., R.5 E., Wayne County, Hydrologic Unit 08020202, at Bridge 435 on County Highway NN in Sam A. Baker State Park.

DRAINAGE AREA.--189 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1992 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 13	1350	ENVIRONM	ENTAL	30	10.1	94	7.4	300	11.8	160	32.3	18.3	.55
JAN 23	1050	ENVIRONM	ENTTAT	58	12.7	106	7.6	249	6.6				
MAR													
06 06 MAY	0900 0905	ENVIRONM REPLICAT		212	12.8	104	8.0	197 	6.1 				
14 JUL	1130	ENVIRONM	ENTAL	2700	9.5	96	7.5	106	15.3	51	11.0	5.80	.32
16	0910	ENVIRONM	ENTAL	37	6.8	85	7.8	278	25.6				
SEP 04	1630	ENVIRONM	ENTAL	36	7.5	98	7.7	289	28.2				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 13	4.11	129	129	158	0	15.7	E.1	12.9	24	160	E.02	<.10	E.03
JAN 23		115	116	142	0				<10		<.04	E.08	.17
MAR 06		85	84	102	0				<10		<.04	<.10	.08
06 MAY									<10		<.04	<.10	.08
14	2.31	52	51	63	0	1.49	<.1	7.1	12	74	<.04	.16	.07
JUL 16		136	137	167	0				<40		<.04	<.10	.05
SEP 04		127	128	156	0				<10		<.04	E.07	.06
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 mm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (mg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (mg/L as Al) (01105)	ARSENIC DIS- SOLVED (mg/L as As) (01000)	CADMIUM DIS- SOLVED (mg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (mg/L as Cd) (01027)	COPPER, DIS- SOLVED (mg/L as Cu) (01040)
NOV													
13 JAN	<.008	<.06	<.02	<.06	K1	К3	K1	6	10	. 2	<.04	<.1	<6
23 MAR	<.008	<.06	<.02	<.06	<1	К3	K1						
06 06 MAY	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	<1 	K6 	K4 						
14	.008	<.06	<.02	<.06	112	172	274	108	345	.2	.11	. 2	<6
JUL 16 SEP	<.008	<.06	<.02	<.06	К5	K16	38						
04	<.008	<.06	<.02	<.06	K2	K7	K26						

# 07037300 BIG CREEK AT SAM A. BAKER STATE PARK--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Zn) (01090)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
13 JAN	<10	<.08	<1	E3.1	<.01	E.2	4	2
23								
MAR								
06								
06								
MAY								
14	137	1.12	5	9.4	E.01	E.2		7
JUL								
16								
SEP								
04								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

#### 07037500 ST. FRANCIS RIVER NEAR PATTERSON, MO

LOCATION.--Lat  $37^{\circ}11^{\circ}40^{\circ}$ , long  $90^{\circ}30^{\circ}12^{\circ}$ , in NE  $\frac{1}{4}$  sec.16, T.29 N., R.5 E., Wayne County, Hydrologic Unit 08020202, near left bank on downstream side of bridge pier on State Highway 34, 1 mi upstream from Clark Creek, and 3 mi east of Patterson.

DRAINAGE AREA. -- 956 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1920 to Sept. 30, 1997, Oct. 1, 1998 to current year. Prior to June 1921, monthly discharge only, published in WSP 1311.

REVISED RECORDS. -- WSP 732: 1922-23.

GAGE.--Water-stage recorder. Datum of gage is 370.45 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1938, nonrecording gage at site 50 ft upstream at datum 2.00 ft higher; Oct. 1, 1938, to Apr. 12, 1939, nonrecording gage; Apr. 13, 1939, to Sept. 5, 1956, water-stage recorder at site 50 ft upstream at present datum; Sept. 6, 1956, to Sept. 26, 1958, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineer satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of August 1915 reached a stage of 33.8 ft, present datum, from floodmarks, discharge,  $100,000 \, \mathrm{ft}^3/\mathrm{s}$ , from rating curve extended above 55,000 ft $^3/\mathrm{s}$ .

		DISCHAR	RGE, CUBIC	FEET PER		WATER Y Y MEAN V	EAR OCTOBER ALUES	R 2001 TO	SEPTEMBER	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	52 50 49 47 52	171 157 147 139 131	3610 2050 1420 1120 934	528 479 446 416 387	19800 8140 3660 2560 1980	915 898 1100 1410 1290	1490 1330 1210 1110 995	2060 1900 1750 1560 1340	e783 e682 e615 e564 e545	125 125 117 113 112	72 62 58 57 80	174 158 144 132 122
6 7 8 9 10	57 56 53 50 57	124 119 113 107 104	872 1060 1210 1030 886	391 383 373 360 346	1660 1480 1330 1190 1070	1180 1090 1020 11300 16100	902 837 4170 8190 3790	1190 1360 21300 43400 13700	e542 e531 e519 e497 e531	110 97 96 91 88	82 66 53 44 38	112 103 97 95 98
11 12 13 14 15	151 139 155 208 244	102 99 97 95 93	776 728 832 1290 2690	331 316 305 292 279	964 866 781 710 644	4930 4160 4120 2930 2500	2490 2020 4930 7910 7510	5450 4030 56200 e34500 e16000	e497 e510 e525 e559 e490	109 185 133 113 117	34 51 115 209 560	94 90 88 85 86
16 17 18 19 20	275 253 232 202 175	90 89 89 89	4140 18900 14000 4710 2950	267 259 252 261 256	593 547 503 641 4440	3570 3720 2600 3710 14400	3660 2520 1980 1700 2360	e5790 e45500 e31600 e13400 e5320	e420 e370 321 281 251	126 129 122 113 108	382 267 260 186 272	87 84 84 83 130
21 22 23 24 25	155 143 134 141 168	84 83 83 133 211	2160 1760 1520 1330 1160	254 252 270 644 1180	4680 2730 1980 1610 1390	8480 4080 2840 2290 2710	2610 2720 2130 4260 5590	e3330 e2130 e1780 e1530 e1350	227 210 195 179 170	124 121 109 91 82	2960 1340 696 714 515	157 179 175 166 149
26 27 28 29 30 31	654 507 351 274 225 193	237 388 472 814 2980	1020 901 810 735 662 594	1320 1160 1040 938 871 2270	1250 1140 1010 	6960 4350 2960 2330 1970 1710	3880 2660 3190 3930 2480	e1210 e1180 e1330 e1660 e1260 e990	157 145 140 134 128	78 92 87 71 79 86	436 361 298 251 219 194	130 116 107 101 95
MEAN MAX MIN IN.	178 654 47 0.21	258 2980 83 0.30	2512 18900 594 3.03	552 2270 252 0.67	2477 19800 503 2.70	3988 16100 898 4.81	3152 8190 837 3.68 TER YEAR (V	10490 56200 990 12.6	391 783 128 0.46	108 185 71 0.13	353 2960 34 0.43	117 179 83 0.14
MEAN MAX (WY) MIN (WY)	354 3391 1985 29.0 1954	1021 6214 1994 48.1 1954	1322 12380 1983 60.9 1954	1456 6725 1950 64.9 1956	1587 4577 1951 125 1963	2129 6981 1945 178 1941	2370 9221 1927 287 1981	1823 10490 2002 139 1930	905 8724 1928 33.6 1936	325 2513 1957 21.3 1936	213 1478 1985 11.2 1936	241 2103 1965 14.8 1955
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002	WATER YE	AR	FOR PE	ERIOD OF	RECORD
LOWEST A HIGHEST LOWEST DANNUAL S MAXIMUM MAXIMUM INSTANTA ANNUAL DO 10 PERCE 50 PERCE	MEAN ANNUAL MANUAL ME DAILY MEA SEVEN-DAY PEAK FLO PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS DS		757  18900 47 51 10.75 1640 246 73	Dec Oct Sep	4	2056 56200 34 52 77500 31.06 31 29.20 4100 497 87	May Aug Oct May May Aug 11,	13 11 1 1 13 13	1143 2731 343 107000 8.0 8.4 155000° 35.77 8.0 16.24 2330 340 54	Dec Aug Aug Dec Dec Aug	1985 1941 4 1982 28 1936 26 1936 3 1982 3 1982 28 1936

e Estimated

a Discharge determined by indirect measurement.

#### 07039000 WAPPAPELLO LAKE AT WAPPAPELLO, MO

LOCATION.--Lat 36°55'42", long 90°17'04", in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.3, T.26 N., R.7 E., Wayne County, Hydrologic Unit 08020202, at intake tower at dam on St. Francis River, 0.8 mi southwest of Wappapello, and at mile 309.

DRAINAGE AREA.--1,310 mi<sup>2</sup>, approximately.

PERIOD OF RECORD. -- April 1941 to current year.

GAGE.--Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 19, 1941, nonrecording gage at same site and datum.

REMARKS.--Lake is formed by earthfill type dam. Closure of channel at dam began July 10, 1940; river began to flow through outlet structure July 24, 1940. Stop logs placed in outlet structure and storage began Apr. 1, 1941; conservation pool level reached Apr. 20, 1941. Capacity at bottom of outlet tunnels (elevation, 339.0 ft), 2,600 ac-ft; at conservation pool level (elevation, 355.0 ft), 30,900 ac-ft; at spillway crest (elevation, 395.0 ft), 613,000 ac-ft; at maximum pool level (elevation, 410.4 ft), uncontrollable above spillway crest, 1,022,000 ac-ft. Lake is used for flood control, power and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 729,800 ac-ft, Apr. 16, 1945, elevation, 399.35 ft; minimum, since initial filling to conservation pool level, 23,340 ac-ft, Mar. 1-3, 1970; elevation, 352.20 ft, Sept. 26-27, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 600,000 ac-ft, May 19, elevation, 395.13 ft; minimum, 27,000 ac-ft, Mar. 5, elevation, 353.96 ft.

### ELEVATION, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359.91	359.75	361.10	361.98	358.38	354.76	361.52	367.07	386.10	364.51	359.72	359.76
2	359.91	359.77	361.43	361.13	362.59	354.41	360.69	366.97	385.22	363.99	359.73	359.79
3	359.90	359.79	361.30	360.32	363.25	354.33	359.96	366.80	384.26	363.49	359.74	359.81
4	359.90	359.78	361.02	359.60	363.02	354.03	359.18	366.62	383.36	362.99	359.74	359.84
5	359.93	359.76	360.71	358.92	362.51	353.96	358.52	366.33	382.37	362.53	359.73	359.86
6	360.02	359.75	360.37	358.42	361.96	354.55	358.03	365.98	381.47	362.06	359.72	359.86
7	360.02	359.74	360.17	357.99	361.37	355.05	357.56	365.62	380.42	361.59	359.71	359.85
8	360.01	359.73	360.11	357.51	360.75	355.53	357.29	367.05	379.38	361.17	359.70	359.86
9	360.01	359.72	360.00	357.10	360.11	355.99	358.56	372.44	378.28	360.75	359.67	359.87
10	359.99	359.69	359.92	356.71	359.54	359.96	360.09	378.21	377.20	360.37	359.65	359.87
11	360.22	359.71	359.81	356.32	358.92	362.75	360.33	378.85	376.18	360.16	359.64	359.88
12	360.29	359.73	359.74	355.99	358.36	362.78	360.29	378.66	375.18	360.04	359.62	359.87
13	360.27	359.74	359.74	355.76	357.81	362.60	360.42	379.77	374.27	359.92	359.68	359.85
14	360.38	359.75	359.87	355.58	357.28	362.32	361.91	386.77	373.36	359.75	360.14	359.83
15	360.38	359.77	359.99	355.42	356.77	361.80	364.20	388.88	372.58	359.72	360.09	359.86
16	360.36	359.80	360.50	355.21	356.30	361.57	365.22	388.49	371.93	359.72	360.07	359.88
17	360.29	359.83	363.40	355.09	355.87	361.49	365.34	388.64	371.39	359.71	360.02	359.84
18	360.21	359.85	367.57	355.01	355.49	361.29	365.21	393.28	370.88	359.72	359.96	359.82
19	360.14	359.87	369.33	355.01	355.08	361.07	364.92	395.13	370.37	359.72	359.88	359.77
20	360.10	359.91	369.32	354.98	355.39	362.54	364.77	394.84	369.84	359.71	359.78	359.98
21	360.02	359.88	369.05	354.96	356.35	365.15	364.88	394.36	369.39	359.72	359.71	360.07
22	359.99	359.85	368.60	354.91	356.88	365.72	364.88	393.76	368.90	359.72	359.78	360.06
23	359.93	359.83	368.17	354.88	356.84	365.20	364.79	393.10	368.41	359.72	359.69	359.99
24	359.90	359.83	367.65	355.73	356.63	364.49	364.61	392.41	367.90	359.72	359.91	359.94
25	359.92	359.85	367.04	356.06	356.32	363.77	365.89	391.69	367.44	359.72	359.97	359.89
26 27 28 29 30 31	359.90 359.83 359.72 359.73 359.74 359.74	359.86 359.97 360.06 360.12 360.43	366.43 365.79 365.08 364.43 363.64 362.82	356.15 356.21 356.20 356.12 356.08 356.01	356.08 355.63 355.13 	364.31 364.87 364.58 363.92 363.18 362.37	366.61 366.79 366.81 366.95 367.08	390.95 390.15 389.35 388.59 387.80 386.97	366.93 366.43 366.05 365.55 365.03	359.72 359.72 359.72 359.71 359.72 359.72	359.92 359.84 359.76 359.75 359.75	359.83 359.78 359.74 359.73 359.76
MEAN	360.02	359.84	363.36	356.69	358.24	360.66	362.78	382.44	373.87	360.60	359.80	359.86
MAX	360.38	360.43	369.33	361.98	363.25	365.72	367.08	395.13	386.10	364.51	360.14	360.07
MIN	359.72	359.69	359.74	354.88	355.08	353.96	357.29	365.62	365.03	359.71	359.62	359.73

### 07039000 WAPPAPELLO LAKE AT WAPPAPELLO, MO--Continued

# RESERVOIR STORAGE, (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62100	60900	72300	80300	51000	30000	76100	132000	421000	105000	60700	61000
2	62100	61100	75300	72600	86000	28700	68700	131000	405000	99500	60800	61200
3	62000	61200	74100	65600	92300	28400	62500	129000	389000	94700	60800	61400
4	62000	61100	71600	59800	90100	27200	56600	127000	374000	89800	60800	61600
5	62300	61000	68900	54700	85300	27000	51900	124000	357000	85500	60800	61700
6	63000	60900	66000	51200	80100	29200	48500	120000	341000	81100	60700	61700
7	63000	60800	64300	48200	74800	31100	45400	116000	323000	76800	60600	61700
8	62900	60800	63700	45100	69200	33500	43700	132000	305000	72900	60600	61700
9	62900	60700	62800	42500	63700	35800	52200	198000	287000	69200	60300	61800
10	62700	60500	62200	40100	59400	62500	63600	286000	270000	66000	60200	61800
11	64700	60600	61400	37800	54700	87600	65600	297000	253000	64200	60100	61900
12	65300	60800	60800	35800	50800	87800	65300	293000	238000	63100	59900	61800
13	65100	60800	60800	34700	47100	86100	66400	312000	224000	62200	60400	61700
14	66100	60900	61800	33800	43600	83500	79700	432000	211000	60900	64000	61500
15	66100	61100	62700	33000	40400	78700	102000	468000	200000	60700	63600	61700
16	65900	61300	67100	31900	37700	76600	112000	462000	191000	60700	63400	61900
17	65300	61500	93800	31300	35200	75900	113000	464000	184000	60600	63000	61600
18	64600	61700	137000	31000	33300	74000	112000	559000	177000	60700	62500	61500
19	64000	61800	158000	31000	31300	72000	109000	600000	171000	60700	61900	61100
20	63700	62100	158000	30800	32900	85600	107000	594000	164000	60600	61100	62700
21	63000	61900	155000	30700	38000	111000	108000	583000	159000	60700	60600	63400
22	62700	61700	149000	30600	41100	117000	108000	570000	153000	60700	61100	63300
23	62300	61500	144000	30400	40900	112000	108000	556000	147000	60700	60500	62700
24	62000	61500	138000	34600	39600	104000	106000	540000	141000	60700	62100	62400
25	62200	61700	131000	36300	37800	97400	119000	525000	136000	60700	62600	62000
26 27 28 29 30 31	62000 61500 60700 60800 60800 60800	61700 62600 63300 63800 66500	125000 118000 110000 104000 96100 88200	36800 37100 37100 36600 36400 36000	36400 34100 31600 	103000 108000 105000 98800 91600 84000	127000 129000 129000 130000 132000	508000 491000 476000 463000 450000 436000	130000 125000 121000 115000 110000	60700 60700 60700 60600 60700 60700	62200 61600 61000 60900 60900	61500 61100 60800 60800 61000
MEAN	63100	61600	95500	41100	52100	73300	89900	373000	227000	68500	61300	61700
MAX	66100	66500	158000	80300	92300	117000	132000	600000	421000	105000	64000	63400
MIN	60700	60500	60800	30400	31300	27000	43700	116000	110000	60600	59900	60800

#### 07039500 ST. FRANCIS RIVER AT WAPPAPELLO, MO

LOCATION.--Lat 36°55'41", long 90°15'55", in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.2, T.26 N., R.7 E., Butler County, Hydrologic Unit 08020202, on right bank at downstream side of highway bridge, 0.5 mi southeast of Wappapello, and 1.25 mi downstream from Wappapello Dam.

DRAINAGE AREA.--1,311 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1940 to Sept. 30, 1997, Oct. 1, 1998 to current year. Since January 1939 in reports of the Mississippi River Commission. Gage-height records collected in this vicinity since April 1920 in reports of the U.S. Army Corps of Engineers.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 315.15 ft (revised) above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1984, at datum 10.00 ft higher at present site. Prior to Oct. 14, 1940, nonrecording gage at same site.

REMARKS.--Records good. Flow completely regulated by Wappapello Lake (07039000), 1.25 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1920, 30.7 ft, former datum, May 15, 1933, discharge 82,500  $\mathrm{ft}^3/\mathrm{s}$ , determined by the U.S. Army Corps of Engineers. Maximum discharge, as determined by the U.S. Army Corps of Engineers, 85,000  $\mathrm{ft}^3/\mathrm{s}$ , Aug. 1915, stage unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DISCHAR	GE, CUBI	C FEET PER		WATER YE MEAN VA		ER 2001 TO :	SEPTEMBE	IR 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	246	1480	4660	2360	2240	6310	3820	9850	3130	125	163
2	71	248	2150	4420	4560	1880	5770	3820	9830	2990	125	157
3	71	247	2470	3980	5520	1690	5210	3800	9830	2880	124	157
4	71	247	2500	3600	5590	1910	4580	3800	9780	2720	123	156
5	75	246	2480	3100	5360	1020	3900	3770	9810	2570	123	154
6	72	246	2290	2670	5070	83	3280	3740	9810	2500	123	153
7	71	246	1900	2350	4770	44	2800	3730	9770	2370	122	153
8	70	246	1780	2100	4460	196	2530	3960	9700	2120	121	153
9	71	246	1620	1950	4160	1260	2780	4300	9690	1930	120	152
10	72	215	1420	1820	3870	3430	3310	5220	9550	1660	119	150
11 12 13 14 15	76 179 371 380 377	94 85 84 84	1250 1070 1010 1090 1520	1660 1410 1170 982 905	3580 3300 3050 2770 2510	5310 5860 5990 5970 5830	3400 3410 3430 3810 4060	6520 6830 7670 9070 9780	9040 8550 8010 7370 6390	1390 1130 1030 769 335	119 97 54 270 650	149 148 147 147 148
16	441	81	1900	848	2270	5620	4140	9770	5390	287	680	216
17	520	81	2470	726	2030	5430	4200	9900	4590	266	679	310
18	524	81	2710	594	1800	5350	4190	9730	4130	263	676	314
19	524	82	4000	523	1660	5420	4120	9910	4010	261	671	320
20	518	150	4920	515	2150	6220	3940	9900	3900	258	724	341
21	462	240	5020	512	3300	7370	3910	9870	3730	256	1190	381
22	383	244	5010	486	3630	7770	3900	9870	3580	280	1540	449
23	380	245	4970	517	3310	7840	3880	9900	3520	204	1090	451
24	384	249	4910	1060	3040	7670	3850	9890	3480	133	769	448
25	382	247	4830	1240	2870	7480	3880	9870	3450	128	784	446
26 27 28 29 30 31	507 752 571 260 242 244	248 250 374 823 1130	4760 4770 4810 4730 4720 4760	1500 1520 1510 1500 1500 1590	2730 2670 2530 	7740 7830 7760 7580 7280 6810	3810 3800 3820 3810 3820	9900 9910 9880 9890 9890 9860	3370 3320 3340 3260 3210	125 124 124 125 128 125	851 815 636 338 311 261	445 388 267 119 68
MEAN	296	246	3075	1707	3390	4964	3922	7670	6442	1052	466	242
MAX	752	1130	5020	4660	5590	7840	6310	9910	9850	3130	1540	451
MIN	70	81	1010	486	1660	44	2530	3730	3210	124	54	68
IN.	0.26	0.21	2.70	1.50	2.69	4.37	3.34	6.75	5.48	0.93	0.41	0.21
MEAN	415	938	2022	2352	OF RECORD <sup>6</sup> 2364 7796 1949 286 1963	2749	2877	2564	1507	714	381	382
MAX	3239	4959	8897	8867		7072	11920	9243	6442	4866	3385	2239
(WY)	1950	1952	1983	1950		1979	1945	1983	2002	1945	1945	1982
MIN	33.9	43.8	167	188		474	63.5	62.3	6.00	87.1	40.0	34.0
(WY)	1949	1954	1990	1981		1981	1981	1987	1978	1980	1965	1955
SUMMARY	STATISTI	CS	FOR :	2001 CALEN	IDAR YEAR	F	OR 2002 T	WATER YEAR		FOR P	ERIOD OF	RECORDa
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	ANNUAL M ANNUAL ME DAILY ME DAILY MEA	CAN CAN LIN MINIMUM LIGE LIOW FLOW LINCHES LIDS LIDS LIDS LIDS LIDS LIDS LIDS LID		914 5570 70 Seg 71  9.47 2560 370 79	Feb 28 5 5,0ct 8 Aug 31		2785 9910 44 72 9990 31.44 41 28.85 7700 1820 124	May 19,27 Mar 7 Oct 2 May 17 May 17 Mar 6		1602 3534 579 21800 0.00 0.00 22300 31.44 0.00 16.60 4110 687 43	Severa A Apr May	1985 1954 16 1945 1 Years t Times 16 1945 17 2002 1 Years

 $<sup>^{\</sup>rm a}$  Post-regulation period, water years 1942-1977 and 1999-2002.

## 07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $36^{\circ}40^{\circ}26^{\circ}$ , long  $89^{\circ}28^{\circ}30^{\circ}$ , in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.6, T.23 N., R.15 E., Madrid County, Hydrologic Unit 08020204, located approximately 2.5 mi east of Interstate 55 on State Highway P, 4.0 mi south of Henderson Mound.

DRAINAGE AREA. -- 313 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 23	1430	ENVIRONM	ENTAL	201	7.0	79	7.2	249	20.0				
NOV 07	0830	ENVIRONM	ENTAL	158	8.3	76	7.5	260	11.7	120	37.1	7.13	1.07
DEC 05 05 JAN	0930 0931	ENVIRONM REPLICAT		564 	8.0	76 	7.2	241	13.1				
16 FEB	1250	ENVIRONM	ENTAL	487	9.8	85	7.8	247	9.0	120	36.1	6.76	1.03
06 MAR	0900	ENVIRONM	ENTAL	1160	9.8	81	7.0	200	7.0				
20 APR	1640	ENVIRONM	ENTAL	2150	9.7	91	7.0	141	12.0				
16 MAY	1110	ENVIRONM	ENTAL	915	6.8	78	7.6	226	21.2				
14 JUN	1440	ENVIRONM	ENTAL	932	6.1	65	7.2	78	18.1	35	10.3	2.12	.91
10 JUL	1740	ENVIRONM	ENTAL	762	4.8	58	7.3	230	23.8				
10 AUG	1035	ENVIRONM	ENTAL	340	6.5	81	7.8	259	25.9	120	35.6	6.88	1.45
21 21 SEP	0840 0841	ENVIRONM REPLICAT		146	6.1 6.2	73 76	7.7 7.7	263 262	24.1 25.0				
11	0810	ENVIRONM	ENTAL	84	5.2	62	7.7	279	24.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 23 NOV 07	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23 NOV 07 DEC 05	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23 NOV 07 DEC	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  90 97 71	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 89 97 71	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 10 20	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .42 .17	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .32 .28 .20
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  90  97  71	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 89 97 71	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 109 118 87	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  15.9	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 10 20 18	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 E.03	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .42 .17 .42 .42	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .32 .28
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20	DIS- SOLVED (mg/L as Na) (00930)  6.70  5.03	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  90  97  71 87	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  89 97 71 87	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  109 118 87 106	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.44  9.13	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  15.9   19.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 10 20 18 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 E.03 <.04	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .42 .17 .42 .42 .19	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .32 .28 .20 .29 .24
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06 MAR 20 APR 16	DIS- SOLVED (mg/L as Na) (00930)  6.70  5.03	WATER UNFLITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  90 97 71 87 64	WATER UNFLTRD TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 89 97 71 87 63	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 109 118 87  106 77	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.44  9.13	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  15.9   19.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 10 20 18 <10 22	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 E.03 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .42 .17 .42 .42 .19 .48	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .32 .28 .20 .29 .24
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20 APR 16 MAY	DIS- SOLVED (mg/L as Na) (00930)  6.70  5.03	WATER UNFLTRD FET FIELD (mg/L as CaCC <sub>3</sub> ) (00410) 90 97 71  87 64 41	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 89 97 71  87 63 41	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 109 118 87  106 77 50	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  8.44  9.13	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  15.9  19.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 10 20 18 <10 22 108	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 E.03 <.04 <.04 .05	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .42 .17 .42 .42 .19 .48 1.0	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .32 .28 .20 .29 .24 .20
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN 10	DIS- SOLVED (mg/L as Na) (00930)  6.70  5.03	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  90 97 71 87 64 41 72	WATER UNFLTRD   TT   FIELD (mg/L as CaCO <sub>3</sub> ) (00419)   89   97   71     87   63   41   73	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 109 118 87  106 77 50 89	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.44  9.13 	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  15.9   19.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 10 20 18 <10 22 108 54	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  170 158	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 E.03 <.04 <.04 .05	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .42 .17 .42 .42 .19 .48 1.0 .93	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .32 .28 .20 .29 .24 .20 .45
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN 10	DIS- SOLVED (mg/L as Na) (00930)  6.70 5.03 2.63	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  90 97 71 87 64 41 72 29	WATER UNFLTRD TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  89  97  71  87  63  41  73  28	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 109 118 87  106 77 50 89 34	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.44  9.13  2.73	RIDE, DIS- SOLVED (mg/L as F) (00950)  .1  .2   E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  15.9  19.5   3.8	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 10 20 18 <10 22 108 54 106	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  170 158 84	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 E.03 <.04 <.04 .05 .13	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .42 .17 .42 .42 .19 .48 1.0 .93	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .32 .28 .20 .29 .24 .20 .45 .71
OCT 23 NOV 07 DEC 05 JAN 16 FEB 20 APR 16 MAY 14 JUN 10 JUL	DIS- SOLVED (mg/L as Na) (00930) 6.70 5.03 2.63	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 90 97 71  87 64 41 72 29 87	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 89 97 71  87 63 41 73 28	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 109 118 87  106 77 50 89 34	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.44  9.13   2.73	RIDE, DIS- SOLVED (mg/L as F) (00950) 12 E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  15.9  19.5   3.8	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 10 20 18 <10 22 108 54 106 141	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  170 158 844	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 E.03 <.04 <.04 .05 .13 .07 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .42 .17 .42 .42 .19 .48 1.0 .93 1.0 1.3	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .32 .28 .20 .29 .24 .20 .45 .71 .41

# 07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 23	E.005	.22	.20	.32	K56	118	K150						
NOV 07	<.008	.21	.20	.24	K27	76	96	11	41	2.3	<.04	<.1	<6
DEC 05	.028	.20	.15	.34	K140	440	567						
05 JAN	.025	.22	.19	.34									
16 FEB	.009	.10	.10	.20	52	135	81	15	101	2.1	<.04	<.1	<6
06 MAR	.012	.11	.09	.24	K310	K316	K423						
20 APR	.042	.18	.15	.39	K640	K712	5400						
16	.049	.15	.13	.39	160	540	236						
MAY 14	.048	.23	.20	.37	к970	3750	5600	360	1990	2.0	E.02	<.1	E3
JUN 10	.026	.11	.06	.69	230	K370	323						
JUL 10	E.006	.16	.16	.32	K180	430	185	<1	389	3.0	<.04	<.2	<6
AUG 21 21	.011	.21	.20 .19	.34	240 210	K890 K630	550 620						
SEP 11	<.008	.24	.24	.32	K140	118	640						
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
OCT	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 23 NOV	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 23 NOV 07 DEC	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660) <.002	CHLOR, WATER FLIRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 23 NOV 07 DEC 05	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 23 NOV 07 DEC 05 05 JAN 16	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900) E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS-SOLVED (µg/L) (34253) <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SODIVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 2	ETHYL ANILINE WAT FIT 0.7 µ GF, REC (µg/L) (82660)  <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253) <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06 MAR 20	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SODIVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  E.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 2	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FIITRD REC (µg/L) (49260)  <.004 	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253) <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20 APR 16	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SODVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  E.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 2	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLIRD REC (µg/L) (49260)  <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342) 	BHC DIS- SOLVED (µg/L) (34253)  <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14	DIS- SOLVED (µg/L as Fe) (01046)  98   123	DIS- SOLVED (µg/L as Pb) (01049)  <.08   E.05	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  52.3   135	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 2	ETHYL ANILINE WAT FIT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.006	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004012	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <<.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007    .038
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN 10	DIS- SOLVED (µg/L as Fe) (01046)  98   123 	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.05	TOTAL RECOV- REABLE (μg/L as Pb) (01051)  <1 <1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  52.3   135	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  E.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3   E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 2 3 3	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004012	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007    .038 3.56
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN 10	DIS- SOLVED (µg/L as Fe) (01046)  98 123 529	DIS- SODIVED (µg/L as Pb) (01049)  <.08   E.05  	TOTAL RECOV- REABLE (μg/L as Pb) (01051)  <1 <1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  52.3   135	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  E.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2   <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  2 3 18	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006	CHLOR, WATER FLIRD REC (µg/L) (49260)  <.004012 .968	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 .043	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007   .038 3.56 5.55
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN 10 JUL 10 AUG 21	DIS- SOLVED (µg/L as Fe) (01046)  98   123   529	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.05   .88	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)  <1 <1 <4 4 4	NESE, DIS- SOLVED (μg/L as Mn) (01056)  52.3   135   79.1	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  E.01 E.01 0.02	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2   <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  2 3 18	ETHYL ANILINE WAT FIT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.006 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004012 .968 .047 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 .043 .405 <.004	BHC DIS- SOLVED (μg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007   .038 3.56 5.55 .610
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN 10 JUL 10 AUG	DIS- SOLVED (µg/L as Fe) (01046)  98   123   529	DIS- SOLVED (µg/L as Pb) (01049)  <.08  E.05   .88	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)  <1 <1 <4 4 4	NESE, DIS- SOLVED (μg/L as Mn) (01056)  52.3   135   79.1	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  E.0102 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2   <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  2 3 18	ETHYL ANILINE WAT FIT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.006 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004012 .968 .047 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <- 004 .043 .405 <.004 <.004	BHC DIS- SOLVED (μg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007   .038 3.56 5.55 .610

# 07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO--Continued (Ambient Water-Quality Monitoring Network)

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DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)
OCT 23													
NOV 07	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.010	<.005	<.02	<.002	<.009
DEC 05													
05 JAN													
16 FEB													
06 MAR													
20 APR	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.009	E.003	<.005	<.02	<.002	<.009
16 MAY	<.010	<.002	<.041	E.027	<.005	E.011	<.003	E.057	<.005	<.005	<.02	<.002	<.009
14	<.010	<.002	E.009	<.020	<.005	.073	<.003	E.155	<.005	<.005	<.02	<.002	<.009
JUN 10	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.042	<.005	<.005	<.02	<.002	<.009
JUL 10	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006	<.005	<.005	<.02	<.002	<.009
AUG 21													
21 SEP													
11													
DATE	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
OCT	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L) (39542)
OCT 23 NOV	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLIRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)
OCT 23 NOV 07 DEC	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671) <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L) (39542)
OCT 23 NOV 07 DEC 05	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLIRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)
OCT 23 NOV 07 DEC 05 05 JAN 16	PROP WATER FLITED 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341)  <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671) <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653) <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06	PROP WATER FLITED 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341)  <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002	MIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653) <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06 MAR 20	PROP WATER FLITRD 0.7 μ GF, REC (μg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)  E.009	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003  	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20 APR 16	PROP WATER FLITED 0.7 µ GF, REC (µg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095)  <.003	DIS- SOLVED (µg/L) (39341)  <.004  	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  E.009	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007  
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20 APR	PROP WATER FLITED 0.7 µ GF, REC (µg/L) (82672)  <.005   <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004    <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.027	AZIN- PHOS: WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050    <.050	PARA-THION THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.150	LACHLOR WATER DISSOLV (µg/L) (39415)  E.009041	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003	THION, DIS- SOLVED (µg/L) (39542) <.007 <.010
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN 10	PROP WATER FLITED 0.7 µ GF, REC (µg/L) (82672) <005 < < < < < < < < <-	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035  <.035  <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006   <.150 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  E.009041	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 <.006	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 < <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542) <.007 <.010 <.010
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN	PROP WATER FLITED 0.7 µ GF, REC (µg/L) (82672) <-005 < < < < < < < < <-	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004   <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027	AZIN-PHOS WAT FIT 0.7 µ GF, REC (µg/L) (82686) <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006   <.150 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  E.009041 .126 .208	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 .011	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.010
OCT 23 NOV 07 DEC 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN 10 JUL 10 AUG 21	PROP WATER FLITED 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (μg/L) (39532)  <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050  <.050 <.050 <.050 <.050	PARA-THION THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.150 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  E.009041 .126 .208	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 .011 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.010 <.010 <.010
OCT 23 NOV 07 DEC 05 05 JAN 16 FEB 06 MAR 20 APR 16 MAY 14 JUN 10 JUL 10 AUG	PROP WATER FLITED 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FIT 0.7 μ GF, REC (μg/L) (82686)  <.050   <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006   <.150 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  E.009041 .126 .208 .043	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 <.006 <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.011 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.010 <.010 <.010

# 07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO--Continued (Ambient Water-Quality Monitoring Network)

2100	PEB- ULATE WATER FILTRD 0.7 µ	PENDI- METH- ALIN WAT FLT 0.7 μ	PER- METHRIN CIS WAT FLT 0.7 µ	PHORATE WATER FLTRD 0.7 µ	PRO- METON, WATER, DISS,	PRON- AMIDE WATER FLTRD 0.7 µ	PROPA- CHLOR, WATER, DISS,	PRO- PANIL WATER FLTRD 0.7 µ	PRO- PARGITE WATER FLTRD 0.7 µ	SI- MAZINE, WATER, DISS,	TEBU- THIURON WATER FLTRD 0.7 μ	TER- BACIL WATER FLTRD 0.7 µ	TER- BUFOS WATER FLTRD 0.7 µ
DATE	GF, REC (μg/L) (82669)	GF, REC (μg/L) (82683)	GF, REC (μg/L) (82687)	GF, REC (μg/L) (82664)	REC (µg/L) (04037)	GF, REC (µg/L) (82676)	REC (µg/L) (04024)	GF, REC (μg/L) (82679)	GF, REC (µg/L) (82685)	REC (µg/L) (04035)	GF, REC (µg/L) (82670)	GF, REC (μg/L) (82665)	GF, REC (μg/L) (82675)
OCT 23 NOV													
07 DEC	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02
05													
05													
JAN													
16 FEB													
06 MAR													
20 APR	<.004	<.022	<.006	<.011	M	<.004	<.010	<.011	<.02	.008	<.02	<.034	<.02
16 MAY	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.041	<.02	<.034	<.02
14	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.039	<.02	<.034	<.02
JUN													
10 JUL	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
10 AUG	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
21													
21													
SEP													
11													

DATE	THIO- BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)		0.7 μ GF, REC (μg/L)
OCT			
23 NOV			
07	<.005	<.002	<.009
DEC			
05 05			
JAN			
16			
FEB			
06 MAR			
20	<.005	<.002	<.009
APR			
16	<.005	<.002	<.009
MAY 14	<.005	<.002	<.009
JUN	<.005	<.002	<.009
10	<.005	<.002	<.009
JUL			
10 AUG	<.005	<.002	<.009
21			
21			
SEP			
11			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 07043500 LITTLE RIVER DITCH 1 NEAR MOREHOUSE, MO

LOCATION.--Lat 36°50'03", long 89°43'48", in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.2, T.25 N., R.12 E., Stoddard County, Hydrologic Unit 08020204, on downstream side of second pier right of left abutment of bridge on State Highway 114, 1.5 mi downstream from Little River Ditch 39, and 2.0 mi west of Morehouse.

DRAINAGE AREA. -- 450 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1945 to September 1991, October 1995 to current year. Prior to January 1946 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 280.76 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 17, 1949 and from June 11, 1951, to Feb. 22, 1962, nonrecording gage at same datum. Nov. 17, 1949, to June 10, 1951, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1945 reached a stage of 19.85 ft, from floodmark, discharge, 5,830  $\mathrm{ft}^3/\mathrm{s}$ .

		DISCHAR	GE, CUBI	C FEET PEF		WATER YI MEAN V		BER 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	101	3070	299	6930	295	751	1780	430	293	89	112
2	60	102	1570	284	5130	300	585	2110	381	212	79	108
3	59	97	924	274	3120	334	504	2600	344	199	70	102
4	58	95	575	265	2320	314	401	2110	315	195	65	95
5	70	95	386	258	1640	290	345	1530	298	169	70	87
6	95	97	414	268	950	274	320	946	324	143	76	82
7	76	96	582	266	722	266	316	943	309	125	68	83
8	67	95	1800	273	580	267	327	5370	281	119	55	84
9	64	93	1180	283	494	573	317	7300	343	122	58	83
10	65	93	662	268	434	1220	308	6830	1570	120	53	82
11	110	94	436	251	384	817	290	5260	1650	214	52	82
12	157	92	439	247	360	539	278	3520	657	289	51	85
13	361	91	767	243	336	467	344	8420	480	714	62	81
14	938	92	2210	247	327	410	2150	9320	392	597	2230	82
15	842	92	2340	238	319	357	3610	8100	334	299	1980	78
16	497	92	4160	223	320	962	2160	5600	307	202	867	75
17	303	92	9800	216	304	1020	1450	7800	303	168	461	82
18	219	92	9670	212	311	667	831	9550	306	150	286	84
19	169	95	8700	227	332	1780	641	8230	283	147	166	108
20	143	91	7140	232	2180	6770	2090	5630	256	132	317	385
21	127	92	4780	235	2020	5300	3510	3640	261	123	349	489
22	120	93	3430	250	1270	3080	2250	2880	244	119	213	373
23	118	95	2920	440	704	2430	1200	2290	218	101	249	242
24	117	108	2080	8390	468	1890	2250	1610	200	98	796	175
25	111	106	1270	7710	399	2150	5220	1130	260	101	695	142
26 27 28 29 30 31	105 102 102 102 101 100	127 536 1360 3110 4940	801 642 554 448 355 320	4900 3140 2480 1900 1450 2520	363 342 322 	8250 6040 3380 2680 2020 1220	3420 2540 2360 1470 892	877 662 578 764 580 506	238 206 931 976 496	94 87 84 84 94 100	499 303 192 152 132 122	138 135 120 104 101
MEAN	181	415	2401	1242	1192	1818	1438	3821	453	184	350	136
MAX	938	4940	9800	8390	6930	8250	5220	9550	1650	714	2230	489
MIN	58	91	320	212	304	266	278	506	200	84	51	75
IN.	0.46	1.03	6.15	3.18	2.76	4.66	3.57	9.79	1.12	0.47	0.90	0.34
					OF RECORD				205	0.50	100	1.60
MEAN	169	432	668	791	880	952	872	778	395	268	188	167
MAX	944	2615	2875	4286	3646	2800	2851	3821	1564	817	658	703
(WY)	1985	1958	1983	1950	1989	1979	1979	2002	1989	1957	1985	1975
MIN	30.6	45.4	73.5	72.3	115	106	146	139	88.7	70.9	47.6	27.4
(WY)	1954	2000	1954	1981	1963	1981	1971	2001	1988	1954	1999	1999
SUMMARY	Y STATISTI	CS	FOR	2001 CALEN	IDAR YEAR	I	FOR 2002	WATER YEAR		FOR P	ERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN INSTANT ANNUAL 10 PERC	MEAN  F ANNUAL ME ANNUAL ME DAILY ME DAILY ME DAILY ME DAILY ME DAILY ME TO SEVEN-DAY M PEAK STP FANEOUS LC RUNOFF (1) CENT EXCEE CENT EXCEE	EAN EAN INTERPORT OF THE PROPERTY OF THE PROPE		9800 50 Aug 52  15.21 1220 152 69	Dec 17 24,25,30 Aug 24		9800 51 57 10300 17.79 4.43 3240 317 86	Dec 17 Aug 12 Aug 7 Dec 17 Dec 17 Aug 12		547 1261 134 11700 21 24 12000 19.30 20 16.52 1310 204 78	Sep Sep Feb Feb	1973 1954 15 1989 18 1954 13 1954 15 1989 15 1989 8 1999

### 07046250 LITTLE RIVER DITCHES NEAR RIVES, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $36^{\circ}05^{\circ}25^{\circ}$ , long  $90^{\circ}04^{\circ}47^{\circ}$ , in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.28, T.17 N., R.9 E., Dunklin County, Hydrologic Unit 08020204, located at the Little River Ditches bridge chain on State Highway 164. Samples are taken during high flow from the three western most ditches.

PERIOD OF RECORD.--November 1969 to June 1970, August 1972 to September 1973, July 1977 to June 1989, November 1992 to current year.

REMARKS.--Analyses represent a composite of water from five ditches. Bacteria is usually taken from Ditch 66. Published as Little River Ditches near Kennett (07046001) for periods of record from November 1969 to September 1993.

DATE	TIME		MPLE YPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 23	1115	ENVIRON	MENTAL	340	4.3	48	7.4	247	19.6				
NOV 06	1015	ENVIRON	MENTAL	291	5.5	54	7.5	299	15.0	130	36.6	9.83	7.15
DEC 04	1400	ENVIRON	MENTAL	4590	9.2	81	6.8	109	9.4				
JAN 15 15 FEB	0918 0919	ENVIRON REPLICA		983 	11.3	94 	8.0	343	7.6 	160 160	45.1 45.2	11.3 11.3	2.03 2.35
05	0945	ENVIRON	MENTAL	5040	9.5	78	7.5	150	7.2				
MAR 26 APR	1515	ENVIRON	MENTAL	10900	10.6	90	7.4	116	8.1				
17 MAY	1405	ENVIRON	MENTAL	4320	8.3	98	7.3	145	23.0				
15	1055	ENVIRON	MENTAL	16800	5.6	60	6.9	80	18.8	30	8.40	2.27	2.22
11 JUL	1405	ENVIRON	MENTAL	6790	4.8	60	7.3	184	25.9				
09 AUG	1035	ENVIRON	MENTAL	590	5.3	71	8.1	380	30.2	180	48.5	13.1	2.82
20 SEP	1000	ENVIRON	MENTAL	520	4.8	62	7.8	269	28.3				
17	0850	ENVIRON	MENTAL	320	5.6	70	8.3	391	25.8				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLITD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as C1)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 23 NOV 06	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23 NOV 06 DEC 04	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 23 NOV 06 DEC 04 JAN 15	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .03 E.03	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05	DIS- SOLVED (mg/L as Na) (00930) 8.98 9.37	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 100 113 26	WATER UNFLITCH IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  101 113 24 135	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 123 138 30	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  19.1 22.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 38 26 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .03 E.03 E.03 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .73 .64 .94	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .08 .14 E.05
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26	DIS- SOLVED (mg/L as Na) (00930) 8.98 9.37 9.19	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  100  113  26  135	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  101 113 24 135	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  123  138  30 164	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  13.9  13.7 14.4	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  19.1  22.1 22.4	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 38 26 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .03 E.03 E.03 <.04 <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .73 .64 .94	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .08 .14 E.05 .10
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17	DIS- SOLVED (mg/L as Na) (00930)  8.98  9.37 9.19	WATER UNFLIRED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  100 113 26 135 50	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  101 113 24 135 48	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  123 138 30 164 58	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  13.9  13.7 14.4	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  19.1  22.1 22.4	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 38 26 <10 <10 252	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .03 E.03 E.03 <.04 <.04 .06	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .73 .64 .94 .17 .20	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .08 .14 E.05 .10 .12
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17 MAY 15	DIS- SOLVED (mg/L as Na) (00930)  8.98  9.37 9.19	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  100 113 26 135 50 45	WATER UNFLTRD 1T FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  101 113 24 135 48 43	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 123 138 30 164  58	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  13.9  13.7 14.4	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  19.1  22.1 22.4	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 38 26 <10 <10 252 584	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .03 E.03 E.03 <.04 <.04 .06	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .73 .64 .94 .17 .20 1.2 2.4	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .08 .14 E.05 .10 .12 .27
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17 MAY 15 JUN 11	DIS- SOLVED (mg/L as Na) (00930)  8.98 9.37 9.19	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  100 113 26 135 50 45	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  101 113 24 135 48 43 61	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  123 138 30 164 58 53 74	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  13.9  13.7 14.4	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  19.1  22.1 22.4	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 38 26 <10 <10 252 584 130	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .03 E.03 E.03 <.04 <.04 .06 .04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .73 .64 .94 .17 .20 1.2 2.4 1.2	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .08 .14 E.05 .10 .12 .27 .49
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17 MAY 15 JUN 11 JUL 09	DIS- SOLVED (mg/L as Na) (00930) 8.98 9.37 9.19 2.65	WATER UNFLIRD (MY/L as CaCO <sub>3</sub> ) (00410)  100 113 26 135 50 45 60 24	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  101 113 24 135 48 43 61 25	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  123 138 30 164 58 53 74 30	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  13.9  13.7 14.4   3.32	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  19.1  22.1 22.4   4.6	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 38 26 <10 <10 252 584 130 162	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  188  208 212   150	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .03 E.03 E.03 <.04 <.04 .06 .04 .05	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .73 .64 .94 .17 .20 1.2 2.4 1.2	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .08 .14 E.05 .10 .12 .27 .49 .56 1.21
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17 MAY 15 JUN 11 JUL	DIS- SOLVED (mg/L as Na) (00930) 8.98 9.37 9.19 2.65	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  100 113 26 135 50 45 60 24 93	WATER UNFLTRD 1T FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  101 113 24 135 48 43 61 25 93	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  123 138 30 164 58 53 74 30 114	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  13.9  13.7 14.4   3.32	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  19.1  22.1 22.4   4.6	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 38 26 <10 <10 252 584 130 162 300	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  188  208 212   150	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  .03 E.03 E.03 <.04 <.04 .06 .04 .05 .06 <.04	GEN, AM- MONTA + ORGANIC TOTAL (mg/L as N) (00625)  .73 .64 .94 .17 .20 1.2 2.4 1.2 1.5 1.8	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .08 .14 E.05 .10 .12 .27 .49 .56 1.21 .82

# 07046250 LITTLE RIVER DITCHES NEAR RIVES, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 23	E.005	.22	.19	.31	K15	54	108						
NOV 06	.040	.26	.23	.35	K28	54	K30	122	476	2.5	E.02	<.1	<6
DEC 04	.045	.39	.25	.51	470	860	1980						
JAN 15 15	.009 E.007	E.05	.06 .07	.09	K3	K11 	K10	17 16	75 78	1.7 1.7	<.04 <.04	<.1 <.1	<6 E4
FEB 05	.056	.21	.19	.50	210	K1370	1160						
MAR 26	.052	.21	.16	.96	K150	340	3650						
APR 17	.055	.18	.13	.41	160	K250	107						
MAY 15 JUN	.088	.28	.22	.59	K700	1100	2750	598	9520	1.7	.04	E.1	<6
11 JUL	.126	.14	E.01	.61	K100	K360	K360						
09 AUG	<.008	.13	.11	.27	42	48	60	2	635	3.7	<.04	<.1	<6
20 SEP	.018	.12	.11	.18	56	380	240						
17	<.008	.12	.12	.19	70	220	550						
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
OCT	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L)	ZINE, WATER, DISS, REC (µg/L)
	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 23 NOV 06 DEC 04	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 23 NOV 06 DEC 04 JAN 15	DIS- SOLVED (µg/L as Fe) (01046)  265  50	DIS- SOLVED (µg/L as Pb) (01049)  .25	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.0102	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002	BHC DIS- SOLVED (µg/L) (34253)  <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 23 NOV 06 DEC 04 JAN 15 15	DIS- SOLVED (µg/L as Fe) (01046)  265  50 49	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051) 1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV-ERABLE (μg/L as Hg) (71900)  E.0102	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2 E.2	DIS- SOLVED (µg/L as Zn) (01090)   4 2	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 6 3 3	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 	BHC DIS- SOLVED (µg/L) (34253) <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .021
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR	DIS- SOLVED (µg/L as Fe) (01046)  265  50	DIS- SOLVED (µg/L as Pb) (01049)  .25	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.0102	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004  	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .021
OCT 23 NOV 06 DEC 04 JAN 15 15 FBB 05 MAR 26	DIS- SOLVED (µg/L as Fe) (01046)  265  50 49 	DIS- SOLVED (µg/L as Pb) (01049)  .25  E.04 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  1 <1 <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  1111  139 140	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.0102 .01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2 E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 6 3 3	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004	BHC DIS- SOLVED (µg/L) (34253) <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .021   .028
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17	DIS- SOLVED (µg/L as Fe) (01046)  265  50 49 	DIS- SOLVED (µg/L as Pb) (01049)  .25  E.04 <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1111  139 140	TOTAL RECOV-ERABLE (μg/L as Hg) (71900)  E.0102 .01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2 E.2	DIS- SOLVED (µg/L as Zn) (01090)   4 2  	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 6 3 3	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004 <.006	CHLOR, WATER, WATER, PISS, REC, (µg/L) (46342)  <.002 <.004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  .021   .028
OCT 23 NOV 06 DEC 04 JAN 15 15 45 FEB 05 MAR 26 APR 17 MAY 15 JUN	DIS- SOLVED (µg/L as Fe) (01046)  265  50 49 	DIS- SOLVED (µg/L as Pb) (01049)  .25  E.04 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  1 <1 <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  1111  139 140	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.0102 .01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2 E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 6 3 3	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006 .354	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 021021028 11.3 5.97
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17 MAY 15 JUN 11 JUL	DIS- SOLVED (µg/L as Fe) (01046)  265 50 49 937	DIS- SOLVED (µg/L as Pb) (01049)  .25  E.04 <.08   2.80	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  1 <1 <11 41 14	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1111  139 140   54.2	TOTAL RECOV-ERABLE (μg/L as Hg) (71900)  E.0102 .0102	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2 E.2   E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  6 3 3 3 38	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006 .354 .032 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 .442 .610	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 021028 11.3 5.97 9.29
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17 MAY 15 JUN 11	DIS- SOLVED (µg/L as Fe) (01046)  265 50 49 937	DIS- SOLVED (µg/L as Pb) (01049)  .25  E.04 <.08   2.80	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  1 <1 <1 11	NESE, DIS- SOLVED (μg/L as Mn) (01056)  1111  139 140   54.2	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  E.0102 .0103	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.2 E.2   E.2	DIS- SOLVED (µg/L as Zn) (01090)  4 2	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  6 3 3 3 3	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006 .354	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 021021028 11.3 5.97

# 07046250 LITTLE RIVER DITCHES NEAR RIVES, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)
OCT 23													
NOV 06	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003	<.005	<.005	<.02	<.002	<.009
DEC 04													
JAN 15													
15 FEB													
05 MAR													
26 APR	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.004	E.004	<.005	<.02	<.002	<.009
17 MAY	<.010	<.002	<.041	E.074	<.005	<.018	<.003	E.194	.009	<.005	<.02	<.002	<.009
15 JUN	<.010	<.002	<.041	E.025	<.005	E.012	<.003	E.296	<.005	<.005	<.02	<.002	<.009
11 JUL	<.010	<.002	<.041	<.020	<.005	.031	<.003	E.275	<.005	<.005	<.02	<.002	<.009
09 AUG	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.062	<.005	<.005	<.02	<.002	<.009
20 SEP													
17													
DATE	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (μg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
OCT	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L)
OCT 23 NOV	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)
OCT 23 NOV 06 DEC	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L) (39542)
OCT 23 NOV 06	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666) <.035	THION, DIS- SOLVED (µg/L) (39532)  .039	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (μg/L) (39542)  <.007
OCT 23 NOV 06 DEC 04 JAN	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341)  <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666) <.035	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671) <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 23 NOV 06 DEC 04 JAN 15	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)  <.003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532) 039	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 101	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341) <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  .039 	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 101	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003 	THION, DIS- SOLVED (µg/L) (39542)  <.007 
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  <.005	WATER DISS REC (µg/L) (04095)  <.003	DIS- SOLVED (µg/L) (39341)  <.004  	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532) 039	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 101	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007	DDE DISSOLV (µg/L) (34653)  <.003  	THION, DIS- SOLVED (µg/L) (39542) <.007
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17 MAY 15	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <-005 <-005	WATER DISS REC (µg/L) (04095)  <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004    <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) 039 <.027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686) <.050 <- <- <- <- <- <- <- <- <- <- <- <-	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006    <.200	LACHLOR WATER DISSOLV (µg/L) (39415) 101101101	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006    <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.010	MMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003	THION, DIS- SOLVED (µg/L) (39542) <.007 <.010
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17 MAY 15 JUN 11	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <-005 <- <- 0.005 <- 0.005 <- 0.005	WATER DISS REC (µg/L) (04095) <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)039 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050  <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006    <.200	LACHLOR WATER DISSOLV (µg/L) (39415) 101041 4.05	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006	INATE WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002  <.010 <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003    <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010
OCT 23 NOV 06 DEC 04 JAN 15 15 15 45 MAR 26 APR 17 MAY 15 JUN 11 JUL 09	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <005 <005 <005 <005 <005 <005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) 039 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050  <.050 <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006   <.200  <.006	LACHLOR WATER DISSOLV (µg/L) (39415) 101041 4.05 2.70	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 .009	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.010 <.002 .027	AMIDE WATER FLITRD 0.7 µ GF, REC (µg/L) (82684)  <.007  <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653) <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.010
OCT 23 NOV 06 DEC 04 JAN 15 15 FEB 05 MAR 26 APR 17 MAY 15 JUN 11 JUL	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <005 <005 <005 <005 <005 <005 <005 <005 <005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) 039 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006  <.200  <.006 .135	LACHLOR WATER DISSOLV (µg/L) (39415) 101041 4.05 2.70 2.48	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006 .009	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.010 <.002 .027 .231	MIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.010 <.010 <.010 <.010

# 07046250 LITTLE RIVER DITCHES NEAR RIVES, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
OCT													
23 NOV													
06	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02
DEC 04													
JAN													
15													
15													
FEB 05													
MAR													
26 APR	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.014	<.02	<.034	<.02
17	<.004	.025	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.861	.02	<.034	<.02
MAY	004	0.770	006	011	- 01	004	010	- 000	0.0	005	0.0	004	0.0
15 JUN	<.004	.079	<.006	<.011	E.01	<.004	<.010	E.009	<.02	.096	<.02	<.034	<.02
11	<.004	.100	<.006	<.011	<.01	<.004	<.010	.396	<.02	.053	<.02	<.034	<.02
JUL	. 004	. 000	. 006	. 011	. 01	. 004	. 010	. 000	. 00	012	. 00	. 024	. 00
09 AUG	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.020	<.02	.013	<.02	<.034	<.02
20													
SEP 17													
1/													

DATE	THIO- BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	$(\mu g/L)$
OCT			
23			
NOV			
06	<.005	<.002	<.009
DEC 04			
JAN			
15			
15			
FEB			
05			
MAR			
26	<.005	<.002	E.004
APR	<.005	<.002	<.009
17 MAY	<.005	<.002	<.009
15	<.005	<.002	.010
JUN			.010
11	.026	<.002	.010
JUL			
09	.006	<.002	<.009
AUG			
20			
SEP 17			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.  $<--Numeric \ result$  is less than the value shown.

## 07050150 ROARING RIVER SPRING NEAR CASSVILLE, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°35'30", long 93°50'00", in SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.27, T.22 N., R.27 W., Barry County, Hydrologic Unit 11010001, at outlet of spring in Roaring River State Park.

PERIOD OF RECORD. -- November 1993 to current year.

REMARKS.--Previously sampled downstream from spring and published as Roaring River at Roaring River State Park (07050152) November 1991 to October 1993.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 05	1205	ENVIRONM	ENTAL	190	7.2	73	7.4	358	14.6	180	67.1	3.33	1.08
JAN 22	1315	ENVIRONM	ENTAL	19	8.6	87	7.4	322	14.0				
MAR 19	0745	ENVIRONM	ENTAL	46	8.1	81	7.3	314	12.8				
MAY 29	1005	ENVIRONM	ENTAL	116	11.6	117	7.3	286	14.0	140	52.6	2.12	.84
JUL 23	1315	ENVIRONM		32	7.6	78	7.2	319	14.7				
SEP 09	1235	ENVIRONM		29	7.6	77	7.1	336	14.4				
							.,_						
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 05 JAN	4.55	156	155	190	0	8.26	<.1	4.6	14	208	<.04	<.10	3.05
22 MAR		142	141	172	0				<10		<.04	<.10	3.57
19 MAY		157	161	197	0				<10		<.04	<.10	2.83
29 JUL	3.40	129	130	158	0	6.50	<.1	3.1	<10	175	<.04	E.06	1.52
23 SEP		142	143	175	0				<10		<.04	.11	3.06
09		148	151	184	0				<10		<.04	E.06	3.14
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 05	<.008	<.06	E.02	E.03	66	175	75	12	21	E.1	.06	<.1	<6
JAN 22	<.008	<.06	E.02	E.03	<4	175 K8	75 K4	12	21 	E.I	.06	<.1	 
MAR 19	<.008	E.03	E.01	<.06 E.04	K2	K8	K40						
MAY								22	16				
29 JUL	.010	<.06	<.02	<.06	100 K4	145	265 K13		46	E.1	.04	<.1	<6 
23 SEP 09	<.008 E.004	<.06 E.03	E.02	<.06 E.03	K4 K1	K10 K8	K13 K2						
0	E.004	E.05	.02	د0.0	IV.I	100	112						

# 07050150 ROARING RIVER SPRING NEAR CASSVILLE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Zn) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
27077								
NOV	.10	. 00	.1	.0.0	. 01	. 2		-
05	<10	<.08	<1	<2.0	<.01	<.3		5
JAN								
22								
MAR								
19								
MAY			_			_		_
29	22	E.06	<1	<2.0	<.01	<.3		3
JUL								
23								
SEP								
0.9								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

### 07050690 PEARSON CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°10'41", long 93°11'53", in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec. 35, T.29 N., R.21 W., Greene County, Hydrologic Unit 11010002, 1.4 mi east of Highway 65 and 0.13 mi south of Highway D (Sunshine).

DRAINAGE AREA.--21.0  $\mbox{mi}^2$ .

PERIOD OF RECORD.--July 21, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage unknown.

REMARKS.--Records fair. U.S.G.S. satellite telemeter at station.

		DISCHAF	RGE, CUBIO	C FEET PER	SECOND, W	VATER YE MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.9 5.9 5.9 5.9	8.1 16 15 13	21 18 14 12 11	13 11 11 9.8 9.4	201 120 83 64 52	15 32 40 40 38	45 41 37 34 31	29 26 24 22 20	32 29 27 25 24	7.1 7.2 7.8 9.1 8.0	4.1 3.9 4.0 3.8 3.6	2.6 2.4 2.1 2.0 2.0
6 7 8 9 10	13 10 8.9 8.2 26	11 9.3 9.1 8.9 8.1	9.4 8.6 7.9 6.9	9.1 8.7 8.3 8.0 7.6	44 39 34 31 28	37 35 34 32 29	29 27 40 40 39	20 45 916 393 227	23 21 19 18 17	7.1 6.7 6.2 6.6 20	3.6 3.7 3.5 3.3 3.2	2.0 1.7 1.7 1.7
11 12 13 14 15	33 24 21 19 17	7.7 7.6 7.8 7.2 6.5	5.7 15 27 29 31	7.3 7.0 6.9 6.6 6.4	25 23 21 19 18	27 26 24 22 21	37 34 32 30 28	142 107 132 110 92	16 23 20 17 16	24 20 23 15 11	3.6 3.6 3.9 3.8	1.6 1.6 1.6 1.9 2.2
16 17 18 19 20	17 16 14 13	5.9 5.8 5.6 7.7 7.4	116 236 153 100 72	6.5 6.3 6.3 6.4	16 15 14 18 19	20 19 18 33 52	26 24 23 22 53	79 354 270 159 110	15 14 13 12 11	10 9.0 9.1 9.7 9.4	3.6 4.5 6.3 4.8 3.9	2.1 2.1 2.1 2.3 3.1
21 22 23 24 25	12 11 26 24 18	6.3 6.1 6.6 11	57 46 38 32 28	6.5 6.3 6.7 10 9.3	19 18 18 17	52 48 44 42 121	74 61 52 47 42	89 77 69 67 56	11 11 9.9 9.6 11	9.0 7.8 7.0 6.3 5.8	3.3 3.2 4.1 7.4 7.6	2.6 2.3 2.1 1.9 1.8
26 27 28 29 30 31	15 14 12 11 9.7 8.8	12 11 13 18 23	25 22 20 17 15 14	9.1 8.6 8.3 8.1 21	16 15 14 	99 74 64 58 52 48	44 40 36 33 30	49 44 43 47 40 35	11 9.4 8.8 8.1 7.7	5.3 4.9 4.6 4.5 4.6 4.2	5.8 4.6 3.8 3.2 2.9 2.6	1.8 1.7 1.6 1.5
MEAN MAX MIN IN.	14.6 33 5.9 0.80	9.92 23 5.6 0.53	39.2 236 5.7 2.15	15.0 210 6.3 0.83	36.4 201 14 1.80 TEARS 1999	41.8 121 15 2.30	37.7 74 22 2.00	126 916 20 6.90	16.3 32 7.7 0.87	9.36 24 4.2 0.51	4.09 7.6 2.6 0.22	1.98 3.1 1.5 0.11
MEAN MAX (WY) MIN (WY)	7.11 14.7 2002 2.70 2001	6.83 9.92 2002 3.77 2000	20.1 39.2 2002 3.73 2001	9.37 15.0 2002 4.39 2000	32.8 53.2 2001 9.62 2000	25.6 41.8 2002 11.3 2000	16.8 37.7 2002 5.20 2000	46.1 126 2002 5.63 2000	13.1 16.3 2002 10.6 2001	28.8 59.6 2000 9.35 2002	7.16 12.4 2001 3.10 1999	5.73 15.2 2001 1.98 2002
SUMMARY	STATISTI	CS	FOR :	2001 CALEN	DAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	EARS 1999	- 2002
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM INSTANTA ANNUAL I 10 PERCI 50 PERCI	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY PEAK STA ANNEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS		375 2.5 2.9  11.69 30 9.8 5.8	Feb 24 Jan 4,5 Jan 1		916 1.5 Se 1.7 2020 7.36 1.4 Sep 19.02 54 14 3.3	May 8 ep 29,30 Sep 7 May 8 May 8 7,28-30		18.5 29.4 12.2 916 1.5 1.7 2200 7.53 1.4 \$11.95 8.1 2.8	Oct 1 Sep Jul 1	2002 2000 8 2002 14 2000 7 2002 12 2000 12 2000 30 2002

# 07050690 PEARSON CREEK NEAR SPRINGFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

DATE	TIME	SAMPI TYPI		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 04	1415	ENVIRON	MENTAL	5.9	10.2	113	8.0	501	18.6				
NOV 07	1255	ENVIRON	MENTAL	9.7	11.0	115	7.8	515	15.7	250	92.6	4.93	1.64
DEC 16 19	1430 0950	ENVIRON ENVIRON		117 103	8.8 11.4	86 110	7.6 7.4	407 437	11.8 12.1	200	72.5	3.67	2.56
JAN 24	1130	ENVIRON	MENTAL	9.7	11.7	105	8.1	506	8.7	240	86.8	4.89	1.45
FEB 20 MAR	0815	ENVIRON	MENTAL	19	9.0	86	7.5	470	10.8				
20 APR	1200	ENVIRON	MENTAL	55	11.0	107	7.7	428	12.1				
20 22	1725 1145	ENVIRON ENVIRON		75 61	7.2 11.6	79 117	7.4 7.6	382 388	16.8 14.1	170 	64.9	2.71	1.69
MAY 28	1045	ENVIRON	MENTAL	42	11.2	116	7.7	429	15.1	210	76.6	3.72	1.73
JUN 18	1620	ENVIRON	MENTAL	13	9.8	112	7.8	454	19.4				
JUL 22	1105	ENVIRON	MENTAL	7.9	8.5	98	7.7	487	20.5	250	92.6	4.70	2.11
20 SEP	1205	ENVIRON	MENTAL	4.1	7.2	85	7.9	477	21.7				
10	1425	ENVIRON	MENTAL	1.7	8.0	98	7.8	486	23.0	230	82.6	5.74	2.02
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 04	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 04 NOV 07	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 04 NOV 07 DEC 16	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 04 NOV 07 DEC 16 19 JAN 24	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 205 196	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 205 196	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 250 241	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 78	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .15 .12	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.94 2.69 2.66
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 205 196 167 181	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 205 196 168 181	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 250 241 205 220	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 78 16	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .15 .12 .62 .20	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.94 2.69 2.66 3.46
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20	DIS- SOLVED (mg/L as Na) (00930) 11.1 8.16 13.2	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  205 196 167 181 191	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 205 196 168 181 192	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 250 241 205 220 235	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 78 16 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .15 .12 .62 .20 .11	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) 1.94 2.69 2.66 3.46 2.75
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20	DIS- SOLVED (mg/L as Na) (00930)  11.1 8.16  13.2	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  205 196 167 181 191 193	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 205 196 168 181 192	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 250 241 205 220 235 235	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  21.1 16.9 29.3	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1 <.1  .2	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  10.6 8.4  10.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 78 16 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .15 .12 .62 .20 .11 .12	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.94 2.69 2.66 3.46 2.75 2.96
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20	DIS- SOLVED (mg/L as Na) (00930)  11.1 8.16  13.2  8.40	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  205 196 167 181 191 193 190 154	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 205 196 168 181 192 192 192	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 250 241 205 220 235 235 235	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  21.1 16.9 29.3  15.9	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1 <.1  .2  	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  10.6 8.4  10.7  7.9	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 78 16 <10 <10 10 36	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .15 .12 .62 .20 .11 .12 .27	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.94 2.69 2.66 3.46 2.75 2.96 2.72
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 20 APR 20 APR 20	DIS- SOLVED (mg/L as Na) (00930)  11.1 8.16  13.2  8.40	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  205 196 167 181 191 193 190 154 152	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 205 196 168 181 192 192 192 192	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 250 241 205 220 235 235 235 235	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  21.1 16.9  29.3 	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1 <.1  .2  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  10.6 8.4  10.7  7.9	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  212 222  294  237 	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .15 .12 .62 .20 .11 .12 .27 .50 .22	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L (mg/L 2.69 2.66 3.46 2.75 2.96 2.72 1.91 2.52
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 28 JUN 18	DIS- SOLVED (mg/L as Na) (00930) 11.1 8.16 13.2 8.40 6.80	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  205 196 167 181 191 193 190 154 152 183	WATER UNFLITED TO THE PROOF TO THE PRO	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  250 241 205 220 235 235 235 187 186 225	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  21.1 16.9  29.3 	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1 <.1  .2  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  10.6 8.4  10.7  7.9  7.8	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  212 222  294   237  253	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .15 .12 .62 .20 .11 .12 .27 .50 .22 .12	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.94 2.69 2.66 3.46 2.75 2.96 2.72 1.91 2.52 2.50
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 21 MAY 22	DIS- SOLVED (mg/L as Na) (00930)  11.1 8.16  13.2  8.40  6.80	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  205 196 167 181 191 193 190 154 152 183 196	WATER UNFLITED TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  205 196 168 181 192 192 192 193 153 153 184	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 250 241 205 220 235 235 235 235 235 246	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  21.1 16.9 29.3 15.9 13.6	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1 <.1  .2  <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  10.6 8.4  10.7  7.9  7.8	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  212 222  294  237  253	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .15 .12 .62 .20 .11 .12 .27 .50 .22 .12 E.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.94 2.69 2.66 3.46 2.75 2.96 2.72 1.91 2.52 2.50 2.44

# 07050690 PEARSON CREEK NEAR SPRINGFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 04	E.005	E.03	.02	E.04	330	K683	157						
NOV 07	.009	<.06	<.02	E.04	160	252	213	15	32	E.2	E.03	<.1	<6
DEC 16 19	<.008 .021	.06 E.03	.06 <.02	.16 E.04	4400 360	7800 560	3100 550	1	677 	.3	<.04	.1	<6 
JAN 24	E.004	<.06	<.02	<.06	180	K477	168	28	67	.3	<.04	<.1	<6
FEB 20	E.005	<.06	<.02	<.06	340	<5	183						
MAR 20 APR	E.005	E.03	<.02	E.05	140	K2120	1000						
20 22 MAY	E.007 .021	E.05 <.06	.02 <.02	.08 <.06	7200 K6	K8660 K850	K16400 326	5 	309 	.3	E.02	<.1	<6 
28 JUN	.034	<.06	<.02	E.03	1400	K1200	633	5	52	E.1	<.04	<.1	<6
18 JUL	<.008	E.03	E.01	<.06	240	K340	310						
22 AUG	.014	E.04	E.01	E.05	220	550	320	3	114	.2	E.02	<.1	<6
20 SEP	E.006	E.04	.03	E.06	200	K1210	1500						
10	E.006	E.04	.02	E.05	360	K860	410	1	55	.3	<.04	<.1	<6
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
OCT	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L)	ZINE, WATER, DISS, REC (µg/L)
	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04 NOV	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04 NOV 07 DEC 16 19 JAN 24	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051) <1 3	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900) <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 4 13	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660) <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20	DIS- SOLVED (µg/L as Fe) (01046)  11 <10	DIS- SOLVED (µg/L as Pb) (01049)  E.05	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 3	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 4 13	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20	DIS- SOLVED (µg/L as Fe) (01046)  11 <10  15	DIS- SOLVED (µg/L as Pb) (01049)  E.05 .09  E.06	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 3 M	NESE, DIS- SOLVED (μg/L as Mn) (01056)  8.8 7.7  4.8	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.2 	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  4 13 3	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)   <.002	BHC DIS- SOLVED (µg/L) (34253) <.005	ZINE, WATER, DISS, REC (µg/L) (39632)   E.004
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20	DIS- SOLVED (µg/L as Fe) (01046)  11 <10  15	DIS- SOLVED (µg/L as Pb) (01049)  E.05 .09  E.06	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 3 M	NESE, DIS- SOLVED (μg/L as Mn) (01056)  8.8 7.7  4.8	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.2  .6	DIS- SODIVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  4 13 3	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  < <.002	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 22 MAY	DIS- SOLVED (µg/L as Fe) (01046)  11 <10 15 E5	DIS- SOLVED (µg/L as Pb) (01049)  E.05 .09  E.06  E.04	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 3 M 2	NESE, DIS- SOLVED (μg/L as Mn) (01056)  8.8 7.7  4.8   8.6	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.2  .6	DIS- SODIVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  4 13 3 10	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  < <.002 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <-0004 <-0006 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 20 APR 21 22 MAY 28 JUN 18	DIS- SOLVED (µg/L as Fe) (01046)  11 <10  15  E5	DIS- SOLVED (µg/L as Pb) (01049)  E.05 .09  E.06	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 3 M 2	NESE, DIS- SOLVED (µg/L as Mm) (01056)  8.8 7.7  4.8   8.6	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.2  .6   E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  4  13 3 10	ETHYL ANILINE UNT FIT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <.002 <.004 <.004	BHC DTS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  E.004  E.003 .009 E.005
OCT 04 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 20 JANY 28 JUN 18 JUL 22	DIS- SOLVED (µg/L as Fe) (01046)  11 <10  15  E5  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.05 .09  E.06   E.04	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 3 M 2 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  8.8 7.7 4.8 8.6 6.1	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.2  .6  E.2  E.3	DIS- SOLVED (µg/L as Zn) (01090)  3   2 2	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  4 13 3 10 3	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <-0002 <-0006 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  E.004  E.003 .009 E.005
OCT     04 NOV     07 DEC     16 19 JAN     24 FEB     20 MAR     20 APR     20 APR     22 MAY     18 JUN     18 JUL	DIS- SOLVED (µg/L as Fe) (01046)  11 <10  15  E5  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.05 .09  E.06   E.04  .16	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 3 M 2 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  8.8 7.7  4.8   8.6  6.1	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.2  .6   E.2  E.3	DIS- SODIVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  4 13 3 10 3	ETHYL ANILINE WAT FIT 0.7 μ GF, REC (μg/L) (82660)  <-002 <-006 <.006 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)  <.004 <.006 <.006 <.006 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 

# 07050690 PEARSON CREEK NEAR SPRINGFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLITRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)
OCT 04													
NOV 07													
DEC 16	<.010	<.002	<.041	<.020	E.003	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
19 JAN													
24 FEB													
20 MAR													
20 APR	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.002	<.005	<.005	<.02	<.002	<.009
20 22	<.010 <.010	.006 <.002	E.018 <.041	<.020 <.020	<.005 <.005	<.018 <.018	<.003 <.003	E.005 E.004	.181 .023	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009
MAY 28	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.005	<.005	<.005	<.02	<.002	<.009
JUN 18	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
JUL 22	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006	E.005	<.005	<.02	<.002	<.009
AUG 20													
SEP 10													
DATE	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
OCT 04	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L)
OCT 04 NOV 07	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L)
OCT 04 NOV 07 DEC 16	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)   <.004	URON WATER FLIRD 0.7 μ GF, REC (μg/L) (82666) <.035	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SEMCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671) <.002	AMIDE WATER FLIRD 0.7 μ GF, REC (μg/L) (82684)	DDE DISSOLV (µg/L) (34653) <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007
OCT 04 NOV 07 DEC 16 19 JAN	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)   <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532) <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLIRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLIRD 0.7 μ GF, REC (μg/L) (82684)	DDE DISSOLV (µg/L) (34653)   <.003	THION, DIS- SOLVED (µg/L) (39542)   <.007
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)   <.005 	WATER DISS REC (µg/L) (04095) <.003	DIS- SOLVED (µg/L) (39341)   <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)   <.027 	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)   <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671) <.002	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684) <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)   <.007 
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)  <.003	DIS- SOLVED (µg/L) (39341)   <.004 	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666) < <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  < <	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  < <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)   <.007 
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095) <.003 <.003	DIS- SOLVED (µg/L) (39341)   <.004  <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <-0.035 <-0.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)   <.050  <.050	PARA- THION THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  < < < < < < < < <-	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006   <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <-002 <-002 <-002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)	DDE DISSOLV (µg/L) (34653)  <.003 <.003	THION, DIS- SOLVED (µg/L) (39542) <.007 <.010
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L) (04095)  <.003	DIS- SOLVED (µg/L) (39341)   <.004 	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666) < <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  < <	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)  < <.007	DDE DISSOLV (µg/L) (34653)  <.003	THION, DIS- SOLVED (µg/L) (39542)   <.007 
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 20	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)  < <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)   <.004  <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  < <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < <	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006  <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 <.013 <.013 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006  <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <-002 <-002 <-002 <-002 <-002	AMIDE WATER FLITRD 0.7 µ GF, REC (µg/L) (82684)  <-0007 <-007 <-007	DDE DISSOLV (µg/L) (34653)  <	THION, DIS- SOLVED (µg/L) (39542)  < <.007 <.010 <.010
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 21 APR 22 MAY 18	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <-003 <-003 <-003 <-003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004  <.004 <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <-027 <-027 <-027 <-027 <-027	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  < < < < < < < < <-	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 <.013 <.013 <.013 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006  <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <-002 <-002 <-002 <-002 <.002 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  < <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  < < < < < <
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 21 JUN 18 JUN 18 JUL 22	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) < .005 < .005 < .005 < .005 < .005 < .005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < <	AZIN-PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)  <.006  <.006 <.006 <.006 <.006 <.020	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 <.013 <.013 <.013 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006  <.006 <.006 <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  < <.003 < <.003 <-003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <
OCT 04 NOV 07 DEC 16 19 JAN 24 FEB 20 MAR 20 APR 20 APR 20 APR 30 APR 18 JUN 18 JUL	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672) <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < <	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050  <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006  <.006 <.006 <.006 <.020 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 <.013 <.013 <.013 <.013 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006  <.006 <.006 <.006 <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	MMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  < < < < < < < <

## 07050690 PEARSON CREEK NEAR SPRINGFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

	PEB-	PENDI-	PER-			PRON-		PRO-	PRO-		TEBU-	TER-	TER-
	ULATE	METH-	METHRIN	PHORATE	PRO-	AMIDE	PROPA-	PANIL	PARGITE	SI-	THIURON	BACIL	BUFOS
	WATER	ALIN	CIS	WATER	METON,	WATER	CHLOR,	WATER	WATER	MAZINE,	WATER	WATER	WATER
	FILTRD	WAT FLT	WAT FLT	FLTRD	WATER,	FLTRD	WATER,	FLTRD	FLTRD	WATER,	FLTRD	FLTRD	FLTRD
	0.7 μ	0.7 μ	0.7 μ	0.7 μ	DISS,	0.7 μ	DISS,	0.7 μ	0.7 μ	DISS,	0.7 μ	0.7 μ	0.7 μ
DATE	GF, REC	GF, REC	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, REC	REC	GF, REC	GF, REC	GF, REC
	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$	(uq/L)	(µq/L)	$(\mu g/L)$	$(\mu g/L)$	(µq/L)	(µq/L)	$(\mu g/L)$	$(\mu g/L)$	(uq/L)	$(\mu g/L)$
	(82669)	(82683)	(82687)	(82664)	(04037)	(82676)	(04024)	(82679)	(82685)	(04035)	(82670)	(82665)	(82675)
OCT													
04													
NOV													
07													
DEC													
16	<.002	<.010	<.006	<.011	.02	<.004	<.010	<.011	<.02	<.011	.02	<.034	<.02
19													
JAN													
24													
FEB													
20													
MAR													
20	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.005	E.01	<.034	<.02
APR													
20	<.004	.066	<.006	<.011	.02	<.004	<.010	<.011	<.02	<.005	.02	<.034	<.02
22	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.005	E.01	<.034	<.02
MAY													
28	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.005	E.01	<.034	<.02
JUN													
18	<.004	<.022	<.006	<.011	.02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
JUL													
22	<.004	<.022	<.006	<.011	.02	<.004	<.010	<.011	<.02	<.005	.02	<.034	<.02
AUG													
20													
SEP													
10													

DATE	GF, REC (µg/L)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	GF, REC (µg/L)
OCT			
04 NOV			
07			
DEC	. 005	. 000	. 000
16 19	<.005	<.002	<.009
JAN			
24			
FEB 20			
MAR			
20	<.005	<.002	<.009
APR			
20 22	<.005 <.005	<.002 <.002	<.009 <.009
MAY	<.003	<.002	<.009
28	<.005	<.002	<.009
JUN	. 005	. 000	. 000
18 JUL	<.005	<.002	<.009
22	<.005	<.002	<.009
AUG			
20 SEP			
10			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 07050700 JAMES RIVER NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°09'00", long 93°12'12", in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.2, T.28 N., R.21 W., Greene County, Hydrologic Unit 11010002, on right bank on county road at Kinser Bridge, 1.1 mi downstream from Pearson Creek, and 2.5 mi southeast of Springfield.

DRAINAGE AREA. -- 246 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,143.27 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 19, 1955, nonrecording gage at same site and datum.

REMARKS.--Records fair. Flows are affected by the pumping of Blackman Water Treatment Plant, 1.0 mi upstream. Springfield City Utilities gage-height and U.S.G.S satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1909 reached a stage of about 22 ft, from information by local resident, discharge not determined.

		DISCHAF	RGE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER	R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 14 14 13 25	15 35 32 42 29	87 85 67 54 46	70 63 52 47 47	3410 976 653 488 390	84 407 703 476 373	241 205 176 151 136	203 177 155 141 126	164 149 130 118 133	47 45 40 43 47	31 25 28 29 27	17 17 17 11 14
6 7 8 9 10	20 18 13 18 32	32 27 24 21 21	38 31 30 27 20	49 40 40 35 34	321 272 236 206 187	359 327 286 288 296	125 119 426 701 516	115 142 13500 5170 1960	136 118 103 96 84	43 42 39 37 74	25 27 25 23 22	12 10 8.2 9.6 10
11 12 13 14 15	50 30 43 41 30	21 19 21 13 19	18 24 44 83 121	31 33 32 27 25	158 141 122 112 102	252 227 200 179 160	392 316 272 289 259	1040 741 1360 951 642	73 100 128 97 82	75 45 56 52 48	23 21 117 117 58	12 9.0 9.7 9.5 9.9
16 17 18 19 20	27 26 20 29 32	19 13 26 29 23	854 4020 1470 758 522	24 20 21 25 26	95 89 80 83 92	150 149 135 524 1890	223 200 178 161 329	506 6070 3640 1280 784	73 68 71 69 59	46 47 51 81 94	23 40 71 45 34	9.2 7.2 8.8 9.3
21 22 23 24 25	28 26 34 36 26	22 16 15 17 9.5	407 333 272 224 187	20 35 29 40 99	95 90 89 86 80	768 525 424 352 1330	885 557 410 346 313	600 468 427 389 354	53 65 62 59 60	51 54 49 46 48	39 26 24 28 37	11 12 17 15 13
26 27 28 29 30 31	27 37 23 21 18 16	16 22 28 31 40	157 131 114 104 89 82	105 91 81 70 104 2740	74 67 74 	883 591 477 398 333 279	293 315 294 244 222	301 263 239 242 209 181	60 57 54 52 49	45 42 39 39 37 35	55 35 30 18 20 16	9.3 10 9.4 8.6 7.9
MEAN MAX MIN IN.	25.8 50 12 0.12	23.2 42 9.5 0.11	339 4020 18 1.59	134 2740 20 0.63	317 3410 67 1.34	446 1890 84 2.09	310 885 119 1.41	1367 13500 115 6.41	87.4 164 49 0.40	49.6 94 35 0.23	36.7 117 16 0.17	11.2 17 7.2 0.05
							BY WATER					
MEAN MAX (WY) MIN (WY)	94.9 587 1971 2.74 1957	246 1327 1973 9.39 1964	285 1370 1983 8.26 1956	213 881 1995 5.56 1981	280 972 1985 8.35 1981	416 1055 1998 16.4 1981	430 1396 1994 16.3 1981	407 1672 1961 27.6 2000	193 873 1985 28.1 1972	107 1148 1958 12.2 1962	37.3 262 1958 3.22 1962	108 1566 1993 1.05 1956
SUMMARY	STATISTI	CS	FOF	2001 CAL	ENDAR YEA	AR.	FOR 2002	WATER YEA	R	WATER YE	ARS 1956	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC	MEAN ANNUAL ME ANNUAL ME DAILY ME SEVEN-DAY PEAK FLC PEAK STE CRUNOFF (I CENT EXCER CENT EXCER	EAN EAN INTERPORT OF THE PROPERTY OF THE PROPE		7220 9.5 12  7.97 237 46 16	Feb 2 Nov 2 Aug 2	25	263 13500 7.2 9.0 21500 17.34 4.0 14.54 481 58 16	May Sep 1 Sep 1 May May Sep 2	7 2 8 8	234 465 52.8 24500 0.30 0.53 41100 19.45 0.10 12.94 504 74	Sep 1 Sep 1 Sep 2 Sep 2	1985 1956 25 1993 16 1956 12 1956 25 1993 25 1993 16 1956

#### 07052000 WILSON CREEK AT SPRINGFIELD, MO

LOCATION.--Lat 37°11'12", long 93°19'52", in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec. 28, T.29 N., R.22 W., Greene County, Hydrologic Unit 11010002, 1,600 ft downstream from confluence of Jordan and Fassnight Creeks, at bridge on Scenic Drive in Springfield.

DRAINAGE AREA.--17.8 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1932 to November 1939, June 28, 1973 to Sept. 22, 1977, June 4, 1998 to present.

GAGE.--Water-stage recorder. Datum of gage is 1200.86 ft above National Geodetic Vertical Datum of 1929. May 1932 to January 1939, recorder 0.5 mi downstream and at datum 4.7 ft lower.

REMARKS. -- Records fair. U.S.G.S. satellite telemeter at station.

REVISIONS.--The maximum instantaneous discharge for the 1999 water year has been revised to 3,560  ${\rm ft^3/s}$ , May 4, 1999. The maximum instantaneous discharge for 2000 water year and the period of record has been revised to 6,750  ${\rm ft^3/s}$ , July 12, 2000; the maximum daily discharge for the 2000 water year revised to 1,710  ${\rm ft^3/s}$ , July 12, 2000, superseding figures published in WDR MO-99-1 and WDR MO-00-1.

		DISCHA	RGE, CUBIO		R SECOND, DAILY			R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.0 3.2 3.4 3.8 96	6.0 73 8.8 6.5 6.1	7.4 5.8 5.4 5.1 4.8	5.1 4.9 4.9 4.9 4.6	33 20 16 13 12	9.1 70 12 9.4 9.4	9.0 8.4 7.8 7.6 7.2	7.8 6.7 6.2 5.7 5.2	10 9.5 8.9 8.7		1.9 2.8 1.7 1.6 1.6	1.6 1.5 1.5 1.3
6 7 8 9 10	8.9 4.9 4.2 4.2	5.6 5.5 8.2 5.7 5.1	4.7 4.2 3.9 3.6 3.5	4.5 4.3 4.1 3.9 3.8	12 11 9.4 9.2 7.8	8.9 7.9 7.4 9.7 7.1	6.9 24 67 19 9.2	6.3 242 878 201 43	8.9 8.0 7.8 7.5 7.2	2.1 2.0 2.2 2.1 55	1.6 1.6 1.7 1.7	1.3 2.0 1.2 0.92 0.91
11 12 13 14 15	67 13 13 9.1 14	4.8 4.7 4.8 4.8	3.5 68 11 15 28	3.7 3.5 3.6 3.3	7.3 6.9 6.6 6.6	6.8 6.5 5.9 5.6 5.9	8.3 7.9 7.8 8.3 6.7	29 91 93 27 21	7.0 47 10 4.7 4.2	6.8 74 37 4.6 3.3	1.9 1.9 2.0 2.2 2.1	0.93 0.93 0.97 3.4 1.6
16 17 18 19 20	14 6.9 6.1 5.7 5.3	4.8 4.8 4.8 19 4.7	216 96 25 17 14	3.1 3.3 3.3 4.5 4.1	6.1 5.9 5.6 41 15	5.1 4.9 14 90 17	8.6 7.7 9.2 19 264	18 300 46 28 23	4.0 3.9 3.8 3.7 3.7	3.3 3.1 3.2 15 13 4.6	2.0 96 5.2 3.1 2.8	1.1 1.2 1.0 23 2.7
21 22 23 24 25	5.0 4.8 100 9.8 6.7	4.2 3.9 3.8 13 4.3	12 11 9.4 8.6 7.7	3.9 3.5 40 12 4.9	7.1 6.1 5.8 5.4 5.4	9.5 8.8 8.3 192	25 14 11 13 9.2	20 18 16 57 16	3.6 3.7 3.5 3.3	3.6 2.6 3.0 2.3 2.3	2.7 2.6 32 35 4.8	1.2 0.97 0.96 0.93 0.90
26 27 28 29 30 31	6.2 5.8 5.6 5.6 5.3	4.0 4.1 16 22 16	7.1 7.0 6.6 6.3 5.9 5.5	4.1 3.7 3.5 22 93 205	5.3 5.1 4.9 	20 15 14 12 11 9.7	39 24 10 8.0 12	14 13 17 38 12	4.8 3.8 10 3.4 3.3	2.2 2.1 2.0 2.4 2.0 1.9	2.7 2.3 2.1 2.0 1.9	0.84 0.86 0.91 0.82 0.81
MEAN MAX MIN IN.	17.9 108 3.0 1.06	9.46 73 3.8 0.54	20.3 216 3.5 1.21	15.4 205 3.1 0.91		20.1 192 4.9 1.20	22.6 264 6.7 1.30	74.5 878 5.2 4.43	8.80 47 3.3 0.51	9.23 74 1.9 0.55	7.32 96 1.6 0.44	1.98 23 0.81 0.11
STATIS	TICS OF MO	ONTHLY MEA	AN DATA FO	OR PERIOD	OF RECORD	, BY WAT	ER YEAR (	WY)				
MEAN MAX (WY) MIN (WY)	13.4 27.7 1937 5.02 2001	16.5 42.6 1974 7.45 1938	14.1 29.4 2000 5.33 2001	18.3 59.7 1937 4.33 2000	20.3 41.0 2001 6.30 1934	22.4 57.6 1935 7.90 1936	24.1 52.9 1933 4.13 2000	32.1 74.5 2002 8.84 1936	32.5 119 1935 6.60 1936	20.2 100 2000 5.62 1936	9.93 15.9 1975 4.37 1999	35.8 361 1975 1.99 2002
SUMMAR	Y STATIST	ICS	FOR 2	2001 CALE	NDAR YEAR	F	OR 2002 W	ATER YEAR		FOR PE	ERIOD OF	RECORD
LOWEST HIGHES' LOWEST ANNUAL MAXIMU INSTAN ANNUAL 10 PER 50 PER	MEAN T ANNUAL M ANNUAL M T DAILY ME SEVEN-DA: M PEAK FIA R PEAK STA TANEOUS IA RUNOFF (: CENT EXCEI CENT EXCEI	EAN EAN AN Y MINIMUM DW AGE DW FLOW INCHES) EDS EDS		15.6 550 1.8 2.3   10.94 32 5.7 3.2	Feb 24 Sep 4 Aug 30		18.3 878 0.81 0.87 4360 <sup>a</sup> 11.29 0.81 12.82 32 5.9 1.9	May 8 Sep 30 Sep 24 May 8 May 8 Sep 30		18.8 29.9 8.26 2160 0.81 0.87 6750 <sup>a</sup> 12.70 0.57 13.20 37 9.0		1937 1936 12 1975 16 2000 24 2002 12 2000 12 2000 7 1999

 $<sup>^{\</sup>rm a}$  From rating extended above 600 ft $^{\rm 3}/{\rm s}$  by indirect measurement.

#### 07052100 WILSON CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat  $37^{\circ}10^{\circ}06^{\circ}$ , long  $93^{\circ}22^{\circ}14^{\circ}$ , in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec. 6, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002 on right bank just downstream from bridge on County Road 156, 1 mile upstream of Sewage Treatment Plant, and 0.75 mi upstream of South Creek.

DRAINAGE AREA. -- 31.4 mi<sup>2</sup>.

PERIOD OF RECORD.--Sept. 21, 1972 to Sept. 30, 1982, May 28, 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1149.65 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor except discharges above  $5 \text{ ft}^3/\text{s}$ , which are fair. U.S.G.S satellite telemeter at station.

REVISIONS.—The maximum instantaneous stages for the water years 1999 and 2000 have been revised to 7.62 ft, May 4, 1999, and 9.49 ft, July 12, 2000. The maximum instantaneous discharge for 2000 water year reivsed to 5,480  $\rm ft^3/s$ , and maximum daily discharge revised to 1,200  $\rm ft^3/s$  on July 12, 2000, superseding figures published in WDR MO-99-1 and WDR MO-00-1.

		DISCHA	RGE, CUBI	C FEET PE	R SECOND, DAILY			ER 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 114	0.00 92 6.3 1.8 0.45	1.1 0.00 0.00 0.00 0.00	e1.9 e1.7 e1.4 e0.96 e0.65	86 39 25 17 13	3.0 92 16 13 7.9	7.6 6.6 5.6 5.1 4.5	7.9 5.9 5.0 4.2 3.5	4.0 2.6 1.4 0.80 5.8	14	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00
6 7 8 9 10	2.4 0.00 0.00 3.3 183	0.02 0.00 0.42 0.89 0.00	0.00 0.00 0.00 0.00	e0.28 e0.16 e0.04 e0.01 e0.00	12 11 9.3 8.5 6.9	7.5 6.4 5.7 7.1 5.1	4.0 9.8 94 32 7.9	4.4 182 1810 539 168	1.7 0.75 0.66 0.60 0.54	e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00
11 12 13 14 15	40 7.9 7.3 3.8	0.00 0.00 0.00 0.00	0.00 84 11 12	e0.00 e0.00 e0.00 0.00	6.1 5.7 5.1 4.6 4.1	4.6 4.5 3.9 3.5 3.2	6.2 5.4 4.3 5.4 3.6	90 95 293 87 47	0.47 56 5.5 0.47 e0.30	9.6 87 65 8.9 e0.06	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00
16 17 18 19 20	5.7 1.4 0.21 0.00 0.00	0.00 0.00 0.00 6.3 0.00	321 199 53 28 17	0.00 0.00 0.00 0.00 0.00	3.7 3.2 2.9 48 15	2.6 2.2 3.0 123 28	2.9 5.5 4.3 14 362	26 613 160 98 65	e0.10 e0.04 e0.00 e0.00 e0.00	e0.01 e0.00 10 13 3.0	e0.00 143 7.9 e0.10 e0.00	e0.00 e0.00 e0.00 9.7 e0.10
21 22 23 24 25	0.00 0.00 142 9.9 3.2	0.00 0.00 0.00 3.2 0.00	13 10 8.7 7.2 5.9		5.6 4.2 3.5 2.9 2.5				e0.00 e0.00 44	e0.04 e0.00 e0.00 e0.00 e0.00		e0.00
26 27 28 29 30 31	1.3 0.42 0.01 0.00 0.00	0.00 0.00 2.8 6.4 19	5.3 4.7 4.0 3.0 e2.5 e2.1	2.4 1.4 0.89 18 128 324	2.3 2.2 2.2 	33 21 16 13 10 8.8	51 31 13 8.8 11	14 9.5 15 68 8.2 5.6	e0.80 e0.06 2.7 e0.04 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.02 e0.01 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00
MEAN MAX MIN IN.	17.4 183 0.00 0.57	4.65 92 0.00 0.15	25.9 321 0.00 0.85	17.5 324 0.00 0.57		24.4 274 2.2 0.80	27.7 362 2.9 0.88	150 1810 3.5 4.92	4.31 56 0.00 0.14	8.66 87 0.00 0.28	8.05 143 0.00 0.26	0.33 9.7 0.00 0.01
STATIS	TICS OF M	ONTHLY ME	AN DATA E	FOR PERIOD	OF RECORD	, BY WA	TER YEAR	(WY)				
MEAN MAX (WY) MIN (WY)	15.6 54.6 1973 2.04 2000	21.7 88.6 1973 0.28 2000	14.1 34.1 1974 0.56 2001	12.4 35.4 1982 0.36 1977	17.6 47.5 2001 2.55 1977	32.4 74.6 1975 1.08 2001	29.5 78.1 1979 0.050 2000	40.5 151 2002 3.55 2000	26.5 56.6 1981 4.31 2002	18.1 73.9 2000 3.17 1980	9.20 23.1 1978 1.23 1999	12.7 73.0 1977 0.33 2002
SUMMAR	Y STATIST	ICS	FOR	2001 CALE	NDAR YEAR		FOR 2002 1	WATER YEAR		FOR	PERIOD OF	F RECORD
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN ANNUAL 10 PER 50 PER	T ANNUAL I	EAN EAN AN Y MINIMUM OW AGE OW FLOW INCHES) EDS EDS	ı	807 0.00 0.00  4.94 26 0.00 0.00	Feb 24 Many Days Many Days		25.4 1810 0.00 0.00 4380 <sup>a</sup> 8.98 0.00 9.79 53 2.4 0.00	May 8 Many Days Many Days May 8 May 8 Many Days		8.0	.2 13 10 May 00 Mar 00 Mar 80 <sup>a</sup> Jul 19 Jul 00 Mar 09	1973 2001 8 2002 ny Years 12 2000 12 2000 ny Years

e Estimated

From rating extended above 2,800 ft<sup>3</sup>/s by indirect measurement.

### 07052120 SOUTH CREEK NEAR SPRINGFIELD, MO

DRAINAGE AREA.--10.5  $\mathrm{mi}^2$ .

PERIOD OF RECORD. -- May 29, 1998 to present.

REVISED RECORDS.--WDR MO-01-1: 2000 (M).

 ${\tt GAGE.--Water-stage}$  recorder. Elevation of gage is 1146.00 ft from topographic map.

REMARKS.--Records poor.

		DISCHA	RGE, CUBIO	C FEET PER		WATER YE Y MEAN VA		ER 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 20	0.00 13 0.03 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	13 7.1 4.6 3.7 2.2	0.00 15 0.34 0.97 0.38	0.67 0.24 0.66 0.21 0.00	0.35 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 e1.8	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.00 0.00 0.00 0.00 30	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	2.7 1.6 0.37 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 1.0 17 7.2 1.3	0.00 28 e298 65 24	e0.00 e0.00 e0.00 e0.00 e0.00	0.00 0.00 0.00 0.00 28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11 12 13 14 15	5.8 0.00 0.00 0.00 0.32	0.00 0.00 0.00 0.00 0.00	0.00 11 0.69 0.51 0.79	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.46 0.0 0.00 0.00 0.00	16 16 45 15 9.4	e0.00 e26 e1.1 e0.00 e0.00	9.4 12 55 14 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	0.74 0.00 0.00 0.00 0.00	0.00 0.00 0.00 2.4 0.00	54 29 9.5 6.1 4.1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 8.9 1.4	0.00 0.00 0.00 21 5.2	0.00 0.00 0.00 0.14 40	5.3 69 23 14 9.2	e0.00 e0.00 e0.00 e0.00 e0.00	0.00 0.00 0.87 0.00 0.00	0.00 e525 21 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	0.00 0.00 26 0.15 0.00	0.00 0.00 0.00 0.00 0.00	2.4 0.32 0.00 e0.00 e0.00	0.00 0.00 3.4 3.7 0.00	0.00 0.00 0.00 0.00 0.00	1.9 0.82 0.07 0.00	5.7 3.8 2.1 3.5 0.71	5.0 0.00 0.00 13 0.66	e0.00 e0.00 e0.00 e0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00	0.16	e0.00 e0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.85 21 52	0.00 0.00 0.00 	6.3 4.9 3.9 1.8 0.84 0.10	7.8 1.3 0.18 0.00 2.0	0.00 0.00 0.00 7.3 0.00 0.00	2.5 0.00 9.2 0.00 0.00	62 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
MEAN MAX MIN IN.	2.68 30 0.00 0.29	0.67 13 0.00 0.07	3.82 54 0.00 0.42	2.61 52 0.00 0.29	1.63 13 0.00 0.16	3.05 31 0.00 0.33	3.20 40 0.00 0.34	21.4 298 0.00 2.35	2.52 35 0.00 0.27	5.85 62 0.00 0.64	17.6 525 0.00 1.93	0.00 0.00 0.00 0.00
	TICS OF MO											
MEAN MAX (WY) MIN (WY)	1.34 2.68 2002 0.00 2001	1.12 1.81 1999 0.67 2002	2.29 4.52 2000 0.00 2001	1.39 2.73 1999 0.00 2001	3.02 4.88 2001 1.63 2002	1.98 3.95 1999 0.09 2001	2.71 7.33 1999 0.14 2000	7.42 21.4 2002 0.44 2001	2.03 4.50 2000 0.56 1998	8.13 24.5 2000 0.70 1998	3.94 17.6 2002 0.00 1999	1.42 3.10 1998 0.00 1999
SUMMAR'	Y STATIST	ICS	FOI	R 2001 CAI	ENDAR YE	AR	FOR 2002	2 WATER YI	EAR	WATER Y	YEARS 1998	- 2002
LOWEST HIGHES' LOWEST ANNUAL MAXIMUI MAXIMUI INSTAN' ANNUAL 10 PER( 50 PER(	MEAN T ANNUAL M ANNUAL M T DAILY ME DAILY ME SEVEN-DA M PEAK ST TANEOUS L CRUNOFF (1 CENT EXCER CENT EXCER CENT EXCER	EAN EAN AN Y MINIMUM DW AGE DW FLOW INCHES) EDS		2.08 139 0.00 0.00  2.68 3.1 0.00 0.00	Jul Many Da At Tim	29 ys es	5.49 5.25 0.00 0.00 Unknowr 9.63 0.00 7.10 0.00	5 Aug D Many Da D At Tir Aug B Aug D Many Da D	17 ays mes 17 17 ays	3.29 5.49 1.57 525 0.00 0.00 Unknowr 9.63 0.00 4.26 5.4 0.00	9 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2002 2001 17 2002 Y Years t Times 17 2002 17 2002 y Years

e Estimated

### 07052152 WILSON CREEK NEAR BROOKLINE, MO

LOCATION.--Lat  $37^{\circ}09^{\circ}07^{\circ}$ , long  $93^{\circ}22^{\circ}18^{\circ}$ , in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.7, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002, at bridge on Farm Road 168, 2.0 mi southeast of Brookline, approximately 0.25 mi downstream from the Southwest Treatment Plant, and 0.5 mi downstream from South Creek.

DRAINAGE AREA. -- 44.6 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 10, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Water-discharge records good. Natural flow partially regulated and affected by sewage effluent.

EXTREMES FOR CURRENT YEAR.--For period July 10 to Sept. 30, maximum instantaneous discharge 2,440 ft $^3$ /s, July 29, gage height 7.26; minimum instantaneous discharge 18 ft $^3$ /s, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											55	32
2											51	29
3											50	31
4											70	34
5											46	36
_												
6											42	38
7											39	35
8											38	160
9											76	170
10										40	52	53
10										10	32	33
11										39	49	45
12										72	38	41
13										46	35	40
14										36	36	38
15										35	37	35
15										33	37	33
16										63	43	33
17										44	57	38
18										42	50	41
19										41	64	39
20										88	40	39
0.1										40	2.0	4.0
21										40	39	40
22										36	39	36
23										38	38	31
24										38	38	32
25										38	34	34
26										42	33	35
27										70	36	35
28										179	36	35
29										507	36	36
30										85	37	30
31										57	38	
MEAN											44.3	45.0
MAX											76	170
MIN											33	29
IN.											0.46	0.45

#### 07052152 WILSON CREEK NEAR BROOKLINE, MO--Continued

LOCATION.--Lat  $37^{\circ}09^{\circ}07^{\circ}$ , long  $93^{\circ}22^{\circ}18^{\circ}$ , in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec.7, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002, at bridge on Farm Road 168, 2.0 mi southeast of Brookline, approximately 0.25 mi downstream from the Southwest Treatment Plant, and 0.5 mi downstream from South Creek.

DRAINAGE AREA. -- 44.6 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 10, 2001 to current year.

GAGE. -- Water-stage recorder. Datum of gage is unknown.

REMARKS.--Water-discharge records good. Natural flow partially regulated and affected by sewage effluent.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DATLY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 37 72 37 MEAN 50.1 39.3 68.2 54.6 59.9 71.5 73.6 45.4 44.1 39.2 34.4 MAX MIN 0.56 0.74 0.45 0.40 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY) MEAN 50.1 39.3 68.2 54.6 59.9 71.5 73.6 45.4 44.1 41.7 39.7 59.9 50.1 68.2 71.5 73.6 45.0 MAX 39.3 54.6 45.4 44.1 44.3 (WY) 54.6 2002 MTN 50 1 39 3 68.2 59 9 71 5 73.6 45.4 44.1 39 2 34 4 (WY) WATER YEARS 2001 - 2002 SUMMARY STATISTICS FOR 2002 WATER YEAR ANNUAL MEAN 67.8 67.8 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 67.8 67.8 750 May 8 2002 27 Aug 11,Sep 18 2002 HIGHEST DAILY MEAN May LOWEST DAILY MEAN 27 Aug 11, Sep 18 ANNUAL SEVEN-DAY MINIMUM Sep 24 Sep 24 2002 MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE Unknown May Unknown May 8 2002 8 2002 10.27 May 10.27 May INSTANTANEOUS LOW FLOW Sep 18 2002 6.1 Sep 18 6.1 ANNUAL RUNOFF (INCHES) 8.22 8.22 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 

# 07052152 WILSON CREEK NEAR BROOKLINE, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1993 to current year.

DATE	TIME	SAMPI TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 07	0855	ENVIRONM	IENTAL	28	14.5	168	7.5	1030	20.6	230	74.6	10.0	13.7
JAN 23 23	1400 1401	ENVIRONM REPLICAT		46	17.7	193	7.7	1160	16.9				
MAR 20	0750	ENVIRONM		74	16.8	171	7.5	848	14.2				
MAY 28 JUN	1435	ENVIRONM	IENTAL	65	15.1	169	7.6	737	18.8	230	79.9	6.19	6.50
19 JUL	0810	ENVIRONM	IENTAL	34	12.1	146	7.6	1180	22.3				
22 SEP	1300	ENVIRONM	IENTAL	44	11.0	141	7.5	1080	25.8				
10	1310	ENVIRONM	IENTAL	41	11.2	146	7.8	1170	26.3				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 07 JAN	108	154	155	189	0	136	.6	67.6	12	606	<.04	1.1	13.1
23 23		171	170	207	0				<10		.08	1.1 1.2	17.6 13.4
MAR 20		169	169	206	0				<10		E.04	1.0	4.72
MAY 28	57.0	175	177	216	0	57.0	.3	44.9	<10	411	.56	1.5	9.36
JUN 19		185	189	230	0								
JUL 22		151	155	189	0				<10		<.04	.82	9.31
SEP 10		148	148	180	0				<10		<.04	.85	8.19
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (mg/L as Al)	ALUM- INUM, TOTAL RECOV- ERABLE (mg/L as Al) (01105)	ARSENIC DIS- SOLVED (mg/L as As) (01000)	CADMIUM DIS- SOLVED (mg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (mg/L as Cd) (01027)	COPPER, DIS- SOLVED (mg/L as Cu) (01040)
NOV 07	E.007	.11	.09	.46	K20	100	K57	28	700	2.9	.15	<.1	E5
JAN 23 23	<.008 <.008	.18	.16 .21	.40	K34	82	58 						
23 MAR 20	<.008	.10	.07	.25	K81	235	304						
MAY 28	.023	.22	.20	.39	130	175	67	8	218	1.1	.04	<.1	<6
JUN 19					<2	К2	К4						
JUL 22	.009	.15	.12	.25	220	600	990						
SEP 10	E.004	.35	.34	.43	K360	480	108						

# 07052152 WILSON CREEK NEAR BROOKLINE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	1,4-DI- CHLORO- BENZENE DISSOLV (µg/L) (34572)	1METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	26DIMET NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	2METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	3-BETA- COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 07	38	.64	2	9.0	E.01	4.7		51					
JAN 23													
23													
MAR 20													
MAY 28	14	.42	М	14.4	<.01	3.1		25	E.1	<.5	<.5	<.5	<2
JUN 19									E.1	<.5	<.5	<.5	<2
JUL 22									E.1	<.5	<.5	<.5	M
SEP 10													
DATE	3METHYL 1(H)- INDOLE, WATER, FLTERD REC	3-TERT- BHA, WATER, FLTERD REC	4-CUMYL PHENOL, WATER, FLTERD REC	4-OCTYL PHENOL, WATER, FLTERD REC	4-TERT- OCTYL- PHENOL, WATER, FLTERD REC	5METHYL 1HBENZO TRIAZLE WATER, FLTERD REC	ACETO- PHENONE WATER, FLTERD REC	AHT NAPH- THALENE WATER, FLTERD REC	ANTHRA- CENE DISSOLV	ANTHRA- QUINONE WATER, FLTERD REC	BENZO- A- PYRENE DISSOLV	BENZO- PHENONE WATER, FLTERD REC	BETA- SITOS- TEROL, WATER, FLTERD REC
	(µg/L) (62058)	(µg/L) (62059)	(µg/L) (62060)	(µg/L) (62061)	(µg/L) (62062)	(µg/L) (62063)	(µg/L) (62064)	(µg/L) (62065)	(µg/L) (34221)	(µg/L) (62066)	(µg/L) (34248)	(µg/L) (62067)	(µg/L) (62068)
NOV 07 JAN													
23 23													
MAR													
20 MAY													
28 JUN	<1	<5 _	<1	<1	<1	<2	<.5	.6	<.5	<.5	<.5	E.1	<2
19 JUL	<1	<5	<1	<1	<1	<2	E.1	E.2	<.5	<.5	<.5	E.2	<2
22 SEP	<1	<5	<1	<1	<1	<2	<.5	E.3	<.5	E.1	<.5	E.1	<2
10													
DATE	BISPHE- NOL A, WATER, FLTERD REC (µg/L) (62069)	BRO- MACIL, WATER, DISS, REC (µg/L) (04029)	BROMO- FORM DISSOLV (µg/L) (34288)	CAF- FEINE, WATER FLTRD REC (µg/L) (50305)	CAMPHOR WATER, FLTERD REC (µg/L) (62070)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBA- ZOLE, WATER, FLTERD REC (µg/L) (62071)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CHOLES- TEROL, WATER, FLTERD REC (µg/L) (62072)	COT- ININE, WATER, FLTERD REC (µg/L) (62005)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	D-LIMO- NENE, WATER, FLTERD REC (µg/L) (62073)	FLUOR- ANTHENE DISSOLV (µg/L) (34377)
NOV 07 JAN													
23 23													
MAR													
20 MAY													
28 JUN	М	E.1	E.1	E.1	<.5	<1	<.5	<.5	3	М	E.1	<.5	<.5
19 JUL	<1	<.5	E46.0	<.5	М	<1	<.5	<.5	3	<1	<.5	<.5	<.5
22 SEP	<1	<.5	E3.1	E.1	<.5	<1	<.5	<.5	М	<1	E.1	<.5	<.5
10													

# 07052152 WILSON CREEK NEAR BROOKLINE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	HHHMCP- BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	INDOLE, WATER, FLTERD REC (µg/L) (62076)	ISOBOR- NEOL, WATER, FLTERD REC (µg/L) (62077)	ISO- PHORONE DISSOLV (µg/L) (34409)	ISO- PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	ISO- QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	MENTHOL WATER, FLTERD REC (µg/L) (62080)	METAL- AXYL WATER FLTRD REC (µg/L) (50359)	METHYL SALICY- LATE, WATER, FLTERD REC (µg/L) (62081)	METO- LACHLOR WATER DISSOLV (μg/L) (39415)	DEET, WATER, FLTERD REC (µg/L) (62082)	NAPHTH- ALENE DISSOLV (µg/L) (34443)	NONYL- PHENOL, DIETHOX WATER, FLTERD REC (µg/L) (62083)
NOV													
07 JAN													
23													
23 MAR													
20 MAY													
28	E.2	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	.8	<.5	<5
19	E.1	<.5	<.5	.5	<.5	<.5	<.5	<.5	<.5	<.5	E.2	<.5	<5
22	E.1	<.5	<.5	<.5	<.5	<.5	<.5	<.5	M	<.5	E.1	<.5	<5
SEP 10													
DATE	DI- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	MONO- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	PARA- CRESOL, WATER, FLTERD REC (µg/L) (62084)	PARA- NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	PENTA- CHLORO- PHENOL DISSOLV (µg/L) (34459)	PHENAN -THRENE DISSOLV (µg/L) (34462)	PHENOL WATER FILTRD (µg/L) (34466)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PYRENE DISSOLV (µg/L) (34470)	STIGMA- STANOL, WATER, FLTERD REC (µg/L) (62086)	TETRA- CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	FYROL CEF, WATER, FLTERD REC (µg/L) (62087)	FYROL PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 07													
JAN													
23 23													
MAR 20													
MAY 28	<1	<1	<1	<5	<2	<.5	1.7	E.1	<.5	<2	М	E.1	E.2
JUN 19	<1	М	<1	<5	<2	<.5	E.3	<.5	<.5	<2	<.5	E.1	E.2
JUL													
22 SEP	<1	<1	<1	<5	<2	<.5	E.4	<.5	<.5	<2	<.5	E.2	E.3

DATE	WATER, FLTERD REC (µg/L)	FLTERD REC (µg/L)	CITRATE WATER, FLTERD REC (µg/L)	TRIPHNL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	PHATE, WATER, FLTERD (µg/L)
NOV 07					
JAN					
23					
23					
MAR					
20					
MAY		_			
28	E.1	<1	E.1	M	E.1
JUN 19	E.1	М	E.1	<.5	<.5
JUL	E.I	141	E.I	<.5	<.5
22	E.1	М	E.1	<.5	<.5
SEP		1-1		1.5	1.5
10					

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 07052160 WILSON CREEK NEAR BATTLEFIELD, MO

LOCATION.--Lat  $37^{\circ}07^{\circ}04^{\circ}$ , long  $93^{\circ}24^{\circ}14^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.24, T.28 N., R.23 W., Greene County, Hydrologic Unit 11010002, on left bank 50 ft downstream from bridge on Greene County Road 182, 0.3 mi upstream from McElhaney Branch, and 1.8 mi west of Battlefield

DRAINAGE AREA. -- 55.0 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1968 to September 1970, October 1972 to September 1982, Aug. 3, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,100 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 20, 1972, at site 50 ft upstream. For period 1972 to 1982, at site 250 ft downstream.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Natural flow partially regulated and affected by sewage effluent. U.S.G.S. satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PEF	R SECOND, W			BER 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	48 48 48 48 178	50 147 80 63 61	75 65 63 61 59	63 64 64 64 60	422 279 215 182 160	74 210 122 110 108	121 114 121 109 104	136 129 125 121 111	113 104 101 98 104	61 63 69 95 e80	49 49 50 46 47	40 43 46 51 47
6 7 8 9	88 62 58 56 228	58 56 55 55 51	58 52 53 49 51	56 59 60 58 57	143 132 131 119 99	106 104 107 98 99	105 102 246 180 139	119 218 2730 1160 594	103 94 90 80 81	e75 e70 e63 54 95	48 48 46 44 50	46 49 46 46 47
11 12 13 14 15	202 114 94 85 82	46 49 49 49	44 147 115 100 86	56 52 50 52 52	95 91 87 84 80	91 87 87 96 83	128 121 116 111 109	416 336 638 367 298	80 129 109 95 78	112 126 149 128 75	39 45 46 48 51	48 47 47 46 46
16 17 18 19 20	93 76 74 68 61	48 46 43 61	491 554 323 228 181	52 51 52 51 51	76 71 72 131 111	86 81 79 255 212	108 116 113 122 495	261 850 496 358 285	72 75 75 73 70	66 62 70 76 78	47 143 94 58 57	46 46 37 62 68
21 22 23 24 25	58 60 184 103 78	54 47 43 51 49	153 144 e135 e120 e110	53 54 62 120 71	90 82 77 74 74	170 153 144 127 492	318 233 199 185 167	236 209 196 258 195	72 68 64 67 136	64 61 58 56 55	52 49 83 91 80	46 44 45 47 43
26 27 28 29 30 31	69 57 52 53 52 52	48 49 58 71 108	e100 88 80 73 68 67	62 58 59 62 233 604	69 66 66 	252 212 189 171 155 132	213 187 156 133 136	152 138 137 187 135 123	118 77 91 74 66	54 50 48 51 52 52	55 52 53 51 48 46	45 44 45 39 43
MEAN MAX MIN IN.	84.8 228 48 1.68	58.5 147 43 1.12	129 554 44 2.55	82.6 604 50 1.63	121 422 66 2.16	145 492 74 2.87	160 495 102 3.07	378 2730 111 7.47	88.6 136 64 1.70	73.2 149 48 1.45	56.9 143 39 1.13	46.5 68 37 0.89
MEAN MAX (WY) MIN (WY)	61.2 103 1973 36.1 1977	103 354 1973 23.9 1977	82.9 208 1974 23.4 1977	75.2 169 1973 24.9 1977	OF RECORD, 97.0 189 2001 32.1 1970	142 289 1973 53.4 1976	118 281 1973 57.0 2000	120 378 2002 45.7 1977	97.6 201 1974 48.5 1969	76.9 236 2000 34.9 1969	53.5 82.4 1982 27.7 1970	58.3 155 1977 25.3 1980
SUMMARY	STATISTI	CS	FOR 2	001 CALEN	IDAR YEAR		FOR 2002	WATER YEAR		FOR P	ERIOD OF	RECORD
LOWEST ANIUAL ANNUAL MAXIMUM MAXIMUM INSTANT. ANNUAL 10 PERC.	MEAN ANNUAL MANNUAL ME DAILY MEA DAILY MEA SEVEN-DAY PEAK FLO PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS		89.2 1420 39 45  20.77 139 63 49	Feb 24 Sep 30 Sep 24		2730 37 44 4620 12.06 27.70 211 75 47	May 8 Sep 18 Sep 24 May 8 May 8 Sep 18		91.3 150 56.9 2830 17 20 6160 13.75 11 21.28 168 59	Aug Aug Jul Jul	1973 1977 20 1979 21 1970 24 1970 12 2000 12 2000 24 1999

e Estimated

# 07052160 WILSON CREEK NEAR BATTLEFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

DATE	TIME	SAMPLE E TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 04	1040	ENVIRONMENTAL		39	7.6	86	7.8	972	19.7				
NOV 07	1040	ENVIRONMENTAL		49	9.7	105	7.4	817	17.2	250	85.5	7.73	8.48
DEC 12	1230	ENVIRONMENTAL		280	10.6	103	7.6	911	12.2	240	78.9	10.3	10.4
19 JAN	0830	ENVIRONMENTAL		226	8.2	83	7.3	580	13.5				
24 FEB	0945	ENVIRONMENTAL		94	9.1	86	7.7	712	11.2	200	70.0	5.26	5.03
20 MAR	1230	ENVIRONMENTAL		116	13.7	141	8.0	738	14.2				
19 19	1930 1931	ENVIRONMENTAL REPLICATE		431	7.5 	73 	6.5	510 	12.4		55.4 55.2	3.17 3.17	3.36 3.32
20 APR	0935	ENVIRONM		197	10.1	98	7.6	594	12.7				
22 MAY	1355	ENVIRONM	MENTAL	229	12.3	131	7.3	546	16.5				
28 JUN	1315	ENVIRONM	MENTAL	139	11.5	125	7.3	586	17.0	180	65.5	3.36	1.86
19 JUL	0940	ENVIRONM	MENTAL	62	6.6	75	7.5	872	19.6				
22 AUG	1430	ENVIRONM	MENTAL	64	8.9	113	7.5	904	25.0	230	79.8	6.93	8.41
20	1030	ENVIRONM	MENTAL	59	7.2	88	7.5	766	22.8				
SEP 10	1110	ENVIRONM	MENTAL	45	7.1	87	7.7	1010	23.1	210	67.4	9.28	10.2
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	FET FIELD	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 04 NOV 07 DEC	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 172	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .09
OCT 04 NOV 07 DEC 12	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 04 NOV 07 DEC 12 19 JAN 24	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 172 190	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 191 193	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 51.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 50	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .15 E.03	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .69 .83	GEN, NO <sub>2</sub> +NO <sub>3</sub> D1S- SOLVED (mg/L as N) (00631) .09 8.32
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 172 190 191 193	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 191 193 194	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 234 235 236	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  51.3 55.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 50 12	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .15 E.03 .09	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .69 .83 1.4 .69	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .09 8.32 11.1 4.54
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19	DIS- SOLVED (mg/L as Na) (00930)  67.2 87.2  65.7	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  172 190 191 193 148 209 123	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 191 193 194 147 211	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  218 234 235 236 179 257	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  83.1 101  89.4  56.1	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  51.3 55.3  25.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 50 12 20 <10 86	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  490 532  376  292	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .15 E.03 .09 E.04 <.04 E.03	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .69 .83 1.4 .69 .50 .54	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .09 8.32 11.1 4.54 4.05 5.19 2.29
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 19	DIS- SOLVED (mg/L as Na) (00930)  67.2 87.2  65.7	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 172 190 191 193 148 209	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 191 193 194 147 211	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 234 235 236 179 257	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  83.1 101  89.4	RIDE, DIS- SOIVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  51.3 55.3  25.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 50 12 20 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .15 E.03 .09 E.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) .69 .83 1.4 .69 .50	GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)  .09 8.32 11.1 4.54 4.05 5.19
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 20	DIS- SOLVED (Mg/L as Na) (00930)  67.2 87.2  65.7  42.5 42.5	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 172 190 191 193 148 209 123	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 191 193 194 147 211 124	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 234 235 236 179 257 151	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  83.1 101  89.4  56.1 57.9	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  51.3 55.3  25.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 50 12 20 <10 86 88	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  490 532  376  292 299	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .15 E.03 .09 E.04 <.04 E.03 E.03	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .69 .83 1.4 .69 .50 .54	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .09 8.32 11.1 4.54 4.05 5.19 2.29 2.29
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 20 APR 22 MAY 28	DIS- SOLVED (mg/L as Na) (00930)  67.2 87.2  65.7  42.5 42.5	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  172 190 191 193 148 209 123 169	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 191 193 194 147 211 124  168	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  218 234 235 236 179 257 151 205	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447) 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  83.1 101  89.4  56.1 57.9	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  51.3 55.3  25.5  25.8 25.9	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 50 12 20 <10 86 88 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  490 532  376  292 299 	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .15 E.03 .09 E.04 <.04 E.03 E.03 E.03	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .69 .83 1.4 .69 .50 .54	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .09 8.32 11.1 4.54 4.05 5.19 2.29 2.29 3.07
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 20 APR 22 MAY 28 JUN 19	DIS- SOLVED (mg/L as Na) (00930)  67.2 87.2  65.7  42.5 42.5	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  172 190 191 193 148 209 123 169 171	WATER UNFLITR IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 191 193 194 147 211 124  168 174	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 234 235 236 179 257 151  205 212	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  83.1  101 89.4 56.1 57.9	RIDE, DIS- SOIVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  51.3 55.3  25.5  25.8 25.9 	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 50 12 20 <10 86 88 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  490 532  376  292 299 	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .15 E.03 .09 E.04 <.04 E.03 E.03 E.03 C.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .69 .83 1.4 .69 .50 .54 1.2 1.0 .45	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .09 8.32 11.1 4.54 4.05 5.19 2.29 2.29 3.07 3.08
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 20 APR 22 MAY 28 JUN 19 21 21	DIS- SOLVED (mg/L as Na) (00930)  67.2 87.2 65.7 42.5 42.5 20.3	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  172 190 191 193 148 209 123 169 171	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 191 193 194 147 211 124  168 174 190	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 234 235 236 179 257 151  205 212	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  83.1  101 89.4 56.1 57.9 36.3	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  51.3 55.3  25.5  25.8 25.9   29.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 50 12 20 <10 86 88 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  490 532  376  292 299 	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .15 E.03 .09 E.04 <.04 E.03 E.03 E.03 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .69 .83 1.4 .69 .50 .54 1.2 1.0 .45 .34	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .09 8.32 11.1 4.54 4.05 5.19 2.29 3.07 3.08 5.75
OCT 04 NOV 07 DEC 12 19 24 FEB 20 MAR 19 20 APR 22 MAY 28 JUN 19	DIS- SOLVED (mg/L as Na) (00930)  67.2 87.2 65.7 42.5 42.5 20.3	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  172 190 191 193 148 209 123 169 171 191 194	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 191 193 194 147 211 124  168 174 190	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  218 234 235 236 179 257 151 205 212 232 236	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  83.1 101 89.4  56.1 57.9  36.3	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  51.3 55.3 25.5 25.8 25.9 29.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 50 12 20 <10 <10 <68 88 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  490 532 376 292 299 358	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 .15 E.03 .09 E.04 <.04 E.03 E.03 E.03 C.04 <.04 .26	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .69 .83 1.4 .69 .50 .54 1.2 1.0 .45 .34 .42	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .09 8.32 11.1 4.54 4.05 5.19 2.29 2.29 3.07 3.08 5.75 5.62

# 07052160 WILSON CREEK NEAR BATTLEFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 04	.024	.20	.13	.20	160	310	76						
NOV 07	.067	.21	.16	.23	94	162	76	22	77	2.6	.10	<.1	E3
DEC 12	.025	.19	.15	.69	500	2860	1000	31	730	1.1	.08	E.1	E5
19 JAN	.033	.10	.07	.17	K21000	K13200	K5400						
24 FEB	.011	.09	.07	.18	K180	360	992	63	338	.7	.06	E.1	E3
20 MAR	.009	.10	.08	.12	K36	<2	K41						
19 19	.012 .012	.07 .07	.06 .06	.43 .41	1100	K1930	2300	8 8	1140 1170	1.7 1.8	.09	.2	<6 <6
20 APR	.012	.07	.05	.13	570	2600	1220						
22 MAY	.017	.06	.05	.11	K4	1400	400						
28 JUN	.018	.12	.10	.15	300	K300	280	6	118	.3	.04	<.1	<6
19 JUL	.096	.11	.10	.14	K26	350	215						
22 AUG	.017	.13	.11	.16	120	460	128	24	175	2.2	.05	<.1	<6
20 SEP	.034	.20	.19	.21	330	K550	425						
10	.011	.29	.29	.32	290	300	150	21	221	3.3	.20	<.1	<6
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	1,4-DI- CHLORO- BENZENE DISSOLV (µg/L) (34572)	1METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	26DIMET NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	2METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (μg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	CHLORO- BENZENE DISSOLV (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)
OCT 04 NOV 07	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (μg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	CHLORO- BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 36 36	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLITERD REC (µg/L) (62054)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660) < <.002	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12 19 JAN	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)  .45	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M 3	NESE, DIS- SOLVED (µg/L as Mn) (01056)  11.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 .02	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 36 36	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLITERD REC (µg/L) (62054)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB	DIS- SOLVED (µg/L as Fe) (01046)  15 34  43	DIS- SOLVED (µg/L as Pb) (01049)  .45 .52  .47	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M 3 4	NESE, DIS- SOLVED (μg/L as Mn) (01056)  11.0 13.5  17.8	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 .0202	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1  1.0	DIS- SOLVED (µg/L as Zn) (01090)   26 	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  36 36 24	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLITERD REC (µg/L) (62054)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR	DIS- SOLVED (µg/L as Fe) (01046)  15 34  43	DIS- SOLVED (µg/L as Pb) (01049)  .45 .52  .47	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M 3 4	NESE, DIS- SOLVED (μg/L as Mn) (01056)  11.0 13.5  17.8	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 .0202	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1  1.0	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  36 36 36 24	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLITERD REC (µg/L) (62054)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  < <.002	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20	DIS- SOLVED (µg/L as Fe) (01046)  15 34  43	DIS- SOLVED (µg/L as Pb) (01049)  .45 .52  .47	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M 3 4	NESE, DIS- SOLVED (μg/L as Mn) (01056)  11.0 13.5  17.8	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 .0202	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1  1.0	DIS- SOLVED (µg/L as Zn) (01090)   26 	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  36 36 24	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 19	DIS- SOLVED (µg/L as Fe) (01046)  15 34  43	DIS- SOLVED (µg/L as Pb) (01049)  .45 .52  .47	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)  Μ  3 4 10	NESE, DIS- SOLVED (μg/L as Mn) (01056)  11.0 13.5  17.8  22.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 .020202	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1  1.0	DIS- SOLVED (µg/L as Zn) (01090)   26   12	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  36 36 36 24 40	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 20	DIS- SOLVED (µg/L as Fe) (01046)  15 34  43 	DIS- SOLVED (µg/L as Pb) (01049)  .45 .52  .47  .20 .20	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  M 3 4 10 12	NESE, DIS- SOLVED (µg/L as Mn) (01056)  11.0 13.5  17.8  22.0 21.7	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 .020202 .03	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1  1.0  4.9 5.4	DIS- SOLVED (µg/L as Zn) (01090)   26    12 12	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  36 36 24 40 40	CHLORO- BENZENE DISSOLV (μg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	ETHYL ANILINE UNT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 19 24 APR 22 MAY 28	DIS- SOLVED (µg/L as Fe) (01046)  15 34  43  14	DIS- SOLVED (µg/L as Pb) (01049)  .45 .52  .47  .20 .20	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)  M 3 4 10 12	NESE, DIS- SOLVED (μg/L as Mn) (01056)  11.0 13.5  17.8  22.0 21.7	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 .020202 .03	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1  1.0  4.9 5.4	DIS- SOLVED (µg/L as Zn) (01090)  26   12 12	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  36 36 24 40 40	CHLORO- BENZENE DISSOLV (μg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 20 APR 22 MAY 28 JUN 19	DIS- SOLVED (µg/L as Fe) (01046)  15 34  43  14 14 	DIS- SOLVED (µg/L as Pb) (01049)  .45 .52  .47  .20 .20	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)   M 3 4 10 12	NESE, DIS- SOLVED (μg/L as Mn) (01056)  11.0 13.5  17.8  22.0 21.7 	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 .020202 .03	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1  1.0  4.9 5.4 	DIS- SOLVED (µg/L as Zn) (01090)  26 12 12	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  36 36 36 24 40 40	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	ETHYL ANILINE UNT FIT 0.7 μ GF, REC (μg/L) (82660)  <-0002 <-006 <.006 <.006 <.006	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 20 APR 22 MAY 28 JUN 19 JUN 19 19 19 19	DIS- SOLVED (µg/L as Fe) (01046)  15 34  43  14 14  E6	DIS- SOLVED (µg/L as Pb) (01049)  .45 .52  .47  .20 .20  	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  M 3 4 10 12 1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  11.0  13.5 17.8 22.0 21.7 17.9	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 .020202 .03 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1  1.0  4.9 5.4  	DIS- SOLVED (µg/L as Zn) (01090)  26   12 12 12 	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  36 36 24 40 40 13	CHLORO-BENZENE DISSOLV (μg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (μg/L) (62054)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006 <.006 <.006	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
OCT 04 04 NOV 07 DEC 12 19 24 FEB 20 MAR 19 29 APR 22 MAY 28 JUN 19	DIS- SOLVED (µg/L as Fe) (01046)  15 34  43  14 14  E6	DIS- SOLVED (µg/L as Pb) (01049)  .45 .52  .47  .20 .20  .19	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)  M 3 4 10 12 1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  11.0  13.5 17.8  22.0 21.7 17.9	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 .020202 .03 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  5.1 3.1 1.0 4.9 5.4 66	DIS- SOLVED (µg/L as Zn) (01090)  26 12 12	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  36 36 24 40 40 13	CHLORO-BENZENE DISSOLV (μg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (μg/L) (62054)	ETHYL ANILINE ANILINE UNAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.006 <.006 <.006 <.006 <.006 <.006 <.006	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)

# 07052160 WILSON CREEK NEAR BATTLEFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	3-BETA- COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)	3METHYL 1(H)- INDOLE, WATER, FLTERD REC (µg/L) (62058)	3-TERT- BHA, WATER, FLTERD REC (µg/L) (62059)	4-CUMYL PHENOL, WATER, FLTERD REC (μg/L) (62060)	4-OCTYL PHENOL, WATER, FLTERD REC (μg/L) (62061)	4-TERT- OCTYL- PHENOL, WATER, FLTERD REC (μg/L) (62062)	5METHYL 1HBENZO TRIAZLE WATER, FLTERD REC (µg/L) (62063)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ACETO- PHENONE WATER, FLTERD REC (µg/L) (62064)	AHT NAPH- THALENE WATER, FLTERD REC (µg/L) (62065)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ANTHRA- CENE DISSOLV (µg/L) (34221)
OCT 04													
NOV 07 DEC													
12								<.004			<.070	<.005	
19 JAN													
24													
FEB 20													
MAR 19								<.006			<.004	<.005	
19								<.006			<.004	<.005	
20 APR								<.006			<.004	<.005	
22 MAY								<.006			<.004	<.005	
28 JUN	<2	<1	<5	<1	<1	<1	<2	<.006	<.5	E.2	<.004	<.005	<.5
19 JUL	<2	<1	<5	<1	<1	<1	<2	<.006	<.5	E.1	<.004	<.005	<.5
22	М	<1	<5	<1	<1	<1	<2	<.006	<.5	E.2	<.004	<.005	<.5
AUG 20													
SEP 10													
DATE	ANTHRA- QUINONE WATER, FLTERD REC (µg/L) (62066)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BENZO- A- PYRENE DISSOLV (µg/L) (34248)	BENZO- PHENONE WATER, FLTERD REC (µg/L) (62067)	BETA- SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	BISPHE- NOL A, WATER, FLTERD REC (µg/L) (62069)	BRO- MACIL, WATER, DISS, REC (µg/L) (04029)	BROMO- FORM DISSOLV (µg/L) (34288)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAF- FEINE, WATER FLTRD REC (µg/L) (50305)	CAMPHOR WATER, FLTERD REC (µg/L) (62070)	CAR- BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)
OCT 04	QUINONE WATER, FLTERD REC (µg/L)	ZINE, WATER, DISS, REC (µg/L)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L)	A- PYRENE DISSOLV (µg/L)	PHENONE WATER, FLTERD REC (µg/L)	SITOS- TEROL, WATER, FLTERD REC (µg/L)	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	ATE, WATER, DISS, REC (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L)
OCT	QUINONE WATER, FLTERD REC (µg/L)	ZINE, WATER, DISS, REC (µg/L)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L)	A- PYRENE DISSOLV (µg/L)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L)	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	ATE, WATER, DISS, REC (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)
OCT 04 NOV 07 DEC	QUINONE WATER, FLTERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L) (39632)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	A- PYRENE DISSOLV (µg/L) (34248)	PHENONE WATER, FLITERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)
OCT 04 NOV 07	QUINONE WATER, FLTERD REC (µg/L)	ZINE, WATER, DISS, REC (µg/L) (39632)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	A- PYRENE DISSOLV (µg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLITERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)
OCT 04 NOV 07 DEC 12 19 JAN	QUINONE WATER, FLTERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L) (39632)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	A- PYRENE DISSOLV (µg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB	QUINONE WATER, FLTERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L) (39632)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	A- PYRENE DISSOLV (µg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20	QUINONE WATER, FLTERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L) (39632)	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	A- PYRENE DISSOLV (µg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19	QUINONE WATER, FITERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L) (39632)  E.004   	FLUR- ALIN WAT FLD 0.7 μ GF, REC (μg/L) (82673)   <.010	A- PYRENE DISSOLV (μg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)  <-0002 <-0002	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)  <.041 E.012
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19	QUINONE WATER, FITERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L) (39632)   E.004     .007	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < <	A- PYRENE DISSOLV (µg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)  <.40   4.27 4.00	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)  <-002 <-002 <-002 <-002 <-002	FEINE, WATER FITRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)  <.041 E.012 E.012
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 19	QUINONE WATER, FITERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L) (39632)  E.004   .007 .007 E.005	FLUR- ALIN WAT FLD 0.7 μ GF, REC (μg/L) (82673)  <-010 <-010 <.010 <.010 <.010	A- PYRENE DISSOLV (μg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)   <.40   4.27 4.00	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)  <-0002 <-0002 <-002 <-002 <-002 <-002	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)  <-041 E.012 E.012 E.012
OCT     04 NOV     07 DEC     12 19 JAN     24 FEB     20 MAR     19 19 20 APR     22 MAY	QUINONE WATER, FITERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L) (39632) 	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  < <.010 <.010 <.010 <.010 <.010 <.010	A- PYRENE DISSOLV (µg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)  <.40   4.27 4.00 	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)  <-0002 <-0002 <.0002 <.0002	FEINE, WATER FITRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)  < < < < E.012 E.012 E.016 <041
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 20 APR 22 MAY 28 JUN	QUINONE WATER, FITERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L)(39632)  E.004007 .007 E.005 <.007	FLUR- ALIN WAT FILD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010	A- PYRENE DISSOLV (μg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)  <.40   4.27 4.00  E.3	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)  <-0002 <-0002 <-002 <-002 <-002 <-002	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)  <-041 E.012 E.012 E.016 <.041 E.005
OCT 04 NOV 07 DEC 12 19 24 FEB 20 MAR 19 20 APR 22 MAY 28 JUN 19	QUINONE WATER, FITERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L)(39632)  E.004 007 .007 .007 E.005 <.007	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010	A- PYRENE DISSOLV (μg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)  M E.2	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)  <.40 4.27 4.00 E.3	FORM DISSOLV (µg/L) (34288)  M E.4	ATE, WATER, DISS, REC (µg/L) (04028)	FEINE, WATER FLITRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)  < <.041 E.012 E.012 E.012 E.016 <.041 E.005 <.041
OCT     04 NOV     07 DEC     12 19 JAN     24 FEB     20 MAR     19 20 APR     22 MAY     28 JUN     19 19 21 AUG	QUINONE WATER, FITERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L)(39632)  E.004007 .007 E.005 <.007	FLUR- ALIN WAT FILD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010	A- PYRENE DISSOLV (μg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)  <.40   4.27 4.00  E.3	FORM DISSOLV (µg/L) (34288)	ATE, WATER, DISS, REC (µg/L) (04028)  <-0002 <-0002 <-002 <-002 <-002 <-002	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)  <-041 E.012 E.012 E.016 <.041 E.005
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 22 APR 22 MAY 28 JUN 19 19	QUINONE WATER, FITERD REC (µg/L) (62066)	ZINE, WATER, DISS, REC (µg/L)(39632)  E.004 007 .007 .007 E.005 <.007	FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010	A- PYRENE DISSOLV (μg/L) (34248)	PHENONE WATER, FLTERD REC (µg/L) (62067)  M E.2	SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)  <.40 4.27 4.00 E.3	FORM DISSOLV (µg/L) (34288)  M E.4	ATE, WATER, DISS, REC (µg/L) (04028)	FEINE, WATER FLITRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)  < <.041 E.012 E.012 E.012 E.016 <.041 E.005 <.041

# 07052160 WILSON CREEK NEAR BATTLEFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	CARBA- ZOLE, WATER, FLTERD REC (µg/L) (62071)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CHOLES- TEROL, WATER, FLTERD REC (µg/L) (62072)	COT- ININE, WATER, FLTERD REC (µg/L) (62005)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	D-LIMO- NENE, WATER, FLTERD REC (µg/L) (62073)	EPTC WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)
OCT 04													
NOV 07													
DEC		000	225			010	000	- 000	0.50	205	0.0		000
12 19		<.020	<.005			<.018	<.003	E.003	.058	<.005	<.02		<.002
JAN 24													
FEB 20													
MAR													
19 19		<.020 <.020	<.005 <.005			<.018 <.018	<.003 <.003	<.006 E.003	.046 .050	<.005 <.005	<.02 <.02		<.002 <.002
20		<.020	<.005			<.018	<.003	<.006	.057	<.005	<.02		<.002
APR 22		<.020	.008			<.130	<.003	<.006	.011	<.005	<.02		<.002
MAY 28	<.5	<.020	<.005	E2	М	<.018	<.003	E.005	.012	<.005	<.02	<.5	<.002
JUN 19	<.5	<.020	<.005	<2	<1	<.018	<.003	<.006	.053	<.005	<.02	<.5	<.002
JUL 22	<.5	<.020	<.005	M	<1	.146	<.003	E.004	.021	<.005	<.02	<.5	<.002
AUG				141	ζ1		<.003						
20 SEP													
10													
DATE	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FLUOR- ANTHENE DISSOLV (µg/L) (34377)	FONOFOS WATER DISS REC (µg/L) (04095)	HHHMCP- BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	INDOLE, WATER, FLTERD REC (µg/L) (62076)	ISOBOR- NEOL, WATER, FLTERD REC (µg/L) (62077)	ISO- PHORONE DISSOLV (µg/L) (34409)	ISO- PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	ISO- QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)
DATE  OCT 04	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L)	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	ANTHENE DISSOLV (µg/L)	WATER DISS REC (µg/L)	BENZO- PYRAN, WATER, FLTERD REC (µg/L)	WATER, FLTERD REC (µg/L)	NEOL, WATER, FLTERD REC (µg/L)	PHORONE DISSOLV (µg/L)	PROPYL BENZENE WATER, FLTERD REC (µg/L)	QUIN- OLINE, WATER, FLTERD REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)
OCT 04 NOV	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	ANTHENE DISSOLV (µg/L)	WATER DISS REC (µg/L) (04095)	BENZO- PYRAN, WATER, FLTERD REC (µg/L)	WATER, FLTERD REC (µg/L)	NEOL, WATER, FLTERD REC (µg/L)	PHORONE DISSOLV (µg/L)	PROPYL BENZENE WATER, FLTERD REC (µg/L)	QUIN- OLINE, WATER, FLTERD REC (µg/L)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)
OCT 04 NOV 07 DEC	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)	ANTHENE DISSOLV (µg/L) (34377)	WATER DISS REC (µg/L) (04095)	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLITERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L)	QUIN- OLINE, WATER, FLTERD REC (µg/L)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)
OCT 04 NOV 07 DEC 12 19	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	ANTHENE DISSOLV (µg/L) (34377)	WATER DISS REC (µg/L) (04095)	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLTERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L)	QUIN- OLINE, WATER, FLTERD REC (µg/L)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)
OCT 04 NOV 07 DEC 12	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	ANTHENE DISSOLV (µg/L) (34377)	WATER DISS REC (µg/L) (04095)	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLTERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)   <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)  <.027
OCT 04 NOV 07 DEC 12 19 JAN	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	ANTHENE DISSOLV (µg/L) (34377)	WATER DISS REC (µg/L) (04095)	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLTERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)   <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)  <.027
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  <-005	ANTHENE DISSOLV (μg/L) (34377)    	WATER DISS REC (µg/L) (04095)  <.003	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLITERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)  <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)   <.005 	ANTHENE DISSOLV (μg/L) (34377)	WATER DISS REC (µg/L) (04095) <.003	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLTERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)   <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035	THION, DIS- SOLVED (µg/L) (39532) <.027
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 19	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009	PROP WATER FLTRD 0.7 μ GF, REC (μg/L) (82672)  <.005   <.005	ANTHENE DISSOLV (µg/L) (34377)	WATER DISS REC (µg/L) (04095)  <.003 <.003	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLTERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)   <.004   <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532) <.027 <.027
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 19 20	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  <-005 <-005 <-005 <-005	ANTHENE DISSOLV (μg/L) (34377)	WATER DISS REC (µg/L) (04095)  <	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLITERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)   <.004   <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027
OCT 04 NOV 07 DEC 12 19 24 FEB 20 MAR 19 20 APR 22 MAY 28	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  <-005 <-005 <.005 <.005 <.005	ANTHENE DISSOLV (µg/L) (34377)	WATER DISS REC (µg/L) (04095)  < < < < < < < < <-	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLTERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  < < < < < <	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 20 APR 22 MAY	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <-005 <.005 <.005 <.005 <.005 <.005	ANTHENE DISSOLV (μg/L) (34377)	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003	BENZO-PYRAN, WATER, FLTERD REC (µg/L) (62075)	WATER, FLITERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)  <-004 <-004 <-004 <-004 <-004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <-0.035 <-0.035 <-0.035 <-0.035 <-0.035 <-0.035 <-0.035	THION, DIS- SOLVED (µg/L) (39532)  < < < < < < < < < < < < < <
OCT 04 NOV 07 DEC 12 19 JAN 24 FEB 20 MAR 19 21 APR 22 APR 22 MAY 28 JUN 19 JUL 22	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  <-005 <-005 <-005 <-005 <-005 <-005	ANTHENE DISSOLV (μg/L) (34377)	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)  E.1	WATER, FLITERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)  <.004   <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <-027 <-027 <-027 <-027 <-027 <-027 <-027 <-027 <-027
OCT 04 NOV 07 DEC 12 19 24 FEB 20 MAR 19 20 APR 22 MAY 28 JUN 19 JUL	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)  <.009 <.009 <.009 <.009 <.009 <.009	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ANTHENE DISSOLV (μg/L) (34377)	WATER DISS REC (µg/L) (04095)  <-003 <-003 <-003 <-003 <-003 <-003 <-003	BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)  E.1 E.1	WATER, FLITERD REC (µg/L) (62076)	NEOL, WATER, FLTERD REC (µg/L) (62077)	PHORONE DISSOLV (µg/L) (34409)             	PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	DIS- SOLVED (µg/L) (39341)  <-0.004 <-0.004 <-0.004 <-0.004 <-0.004 <-0.004 <-0.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <-0.035 <-0.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027

# 07052160 WILSON CREEK NEAR BATTLEFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

(µg/L) (62080) (50359) (82686) (82667) (62081) (39415) (82630) (82671) (62082) (34443) (82684)	NONYL- PHENOL, DIETHOX WATER, FLTERD REC (µg/L) (62083)	DI- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)
OCT 04		
NOV 07		
DEC 12 <.050 <.006 E.006 <.006 <.002 <.007		
19 JAN		
24 FEB		
20		
19 <.050 <.006 E.008 <.006 <.002 <.007		
19 <.050 <.006 E.008 <.006 <.002 <.007		
APR		
22 <.050 <.006 <.013 <.006 <.002 <.007 MAY		
28 <.5 <.5 <.050 <.006 <.5 <.013 <.006 <.002 E.4 <.5 <.007 JUN	<5	<1
19 <.5 <.5 <.050 <.006 <.5 <.013 <.006 <.002 E.1 <.5 <.007 JUL	<5	<1
22 <.5 <.5 <.050 <.006 M .022 <.006 <.002 E.1 <.5 <.007 AUG	<5	<1
20 SEP		
10		
MONO- PARA- PEB- PENDI- PER-		
OCTYL- CRESOL, PHENOL, PARA- WATER ALIN PENTA- CIS PHENOL WATER, WATER, P,P' THION, FILTRD WAT FLT CHLORO- WAT FLT PHENAN PHENOL WAT FLT FLTERD FLTERD DDE DIS- 0.7 μ 0.7 μ PHENOL 0.7 μ -THRENE WATER  DATE REC REC REC DISSOLV SOLVED GF, REC GF, REC DISSOLV GF, REC DISSOLV FILTRD (μg/L)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)
OCTYL- CRESOL, PHENOL, PARA- WATER ALIN PENTA- CIS PHENOL WATER, WATER, P,P' THION, FILTRD WAT FLT CHLORO- WAT FLT PHENAN PHENOL WAT FLT FLTERD FLTERD DDE DIS- 0.7 μ 0.7 μ PHENOL 0.7 μ -THRENE WATER  DATE REC REC REC DISSOLV SOLVED GF, REC GF, REC DISSOLV GF, REC DISSOLV FILTRD (μg/L)	WATER FLTRD 0.7 µ GF, REC (µg/L)	METON, WATER, DISS, REC (µg/L)
OCTYL-	WATER FLTRD 0.7 µ GF, REC (µg/L)	METON, WATER, DISS, REC (µg/L) (04037)
OCTYL- CRESOL, PHENOL, PARA- WATER ALIN PENTA- CIS PHENOL WATER, WATER, P,P' THION, FILITRD WAT FLT CHLORO- WAT FLT PHENAN PHENOL WAT FLT FLTERD FLTERD DDE DIS- 0.7 μ 0.7 μ PHENOL 0.7 μ -THRENE WATER REC REC REC DISSOLV SOLVED GF, REC GF, REC DISSOLV GF, REC DISSOLV FILITRD (μg/L)	WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	METON, WATER, DISS, REC (µg/L) (04037)
OCTYL-   CRESOL, PHENOL, PARA-   PARA-   WATER   ALIN   PENTA-   CIS	WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	METON, WATER, DISS, REC (µg/L) (04037)
OCTYL-   CRESOL, PHENOL, PARA-   PARA-   WATER   ALIN   PENTA-   CIS	WATER FLITRD 0.7 µ GF, REC (µg/L) (82664)	METON, WATER, DISS, REC (µg/L) (04037)
OCTYL-   CRESOL,   PHENOL,   PARA-   WATER   ALIN   PENTA-   CIS	WATER FLITRD 0.7 μ GF, REC (μg/L) (82664)  <.011	METON, WATER, DISS, REC (µg/L) (04037)
OCTYL-   CRESOL, PHENOL, PARA-   PARA-   WATER   ALIN   PENTA-   CIS	WATER FLITRD 0.7 μ GF, REC (μg/L) (82664)   <.011 	METON, WATER, DISS, REC (µg/L) (04037)
OCTYL-   CRESOL, PHENOL, PARA-   PARA-   WATER   ALIN PENTA-   CIS	WATER FLITRD 0.7 μ GF, REC (μg/L) (82664)  <.011  <.011	METON, WATER, DISS, REC (µg/L) (04037) 040403
OCTYL-   CRESOL, PHENOL, PARA-   PARA-   WATER   ALIN   PENTA-   CIS	WATER FLITRD 0.7 μ GF, REC (μg/L) (82664)   <.011 	METON, WATER, DISS, REC (µg/L) (04037)
OCTYL-   CRESOL, PHENOL, PARA-   PARA-   WATER   ALIN   PENTA-   CIS	WATER FLITRD 0.7 μ GF, REC (μg/L) (82664)  <.011 <.011 <.011	METON, WATER, DISS, REC (µg/L) (04037) 0403 .02
OCTY	WATER FLITRD 0.7 μ GF, REC (μg/L) (82664)  <-011 <-011 <-011 <.011 <.011	METON, WATER, DISS, REC (µg/L) (04037) 0403 .02 E.04
OCTYL	WATER FLITRD 0.7 μ GF, REC (μg/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (µg/L) (04037) 0403 .02 E.04 .04
OCTYL	WATER FLIRD 0.7 μ GF, REC (μg/L) (82664)  <-011 <-011 <-011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (µg/L) (04037) 0403 .02 E.04 .04 .03
OCTYL	WATER FLITRD 0.7 μ GF, REC (μg/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (µg/L) (04037) 0403 .02 E.04 .04

### 07052160 WILSON CREEK NEAR BATTLEFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	PYRENE DISSOLV (µg/L) (34470)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	STIGMA- STANOL, WATER, FLTERD REC (µg/L) (62086)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	TETRA- CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	FYROL CEF, WATER, FLTERD REC (µg/L) (62087)
OCT 04													
NOV													
07 DEC													
12 19 JAN	<.004	<.010	<.011	<.02		E.009		<.02	<.034	<.02		<.005	
24													
FEB 20													
MAR 19	<.004	<.010	<.011	<.02		<.005		<.02	<.034	<.02		<.005	
19 20	<.004 <.004	<.010 <.010	<.011 <.011	<.02 <.02		<.005 <.005		<.02 <.02	<.034 <.034	<.02 <.02		<.005 <.005	
APR													
22 MAY	<.004	<.010	<.011	<.02		.018		<.02	<.034	<.02		<.005	
28 JUN	<.004	<.010	<.011	<.02	<.5	.007	<2	.02	<.034	<.02	M	<.005	E.1
19 JUL	<.004	<.010	<.011	<.02	<.5	.024	<2	<.02	<.034	<.02	<.5	<.005	E.1
22 AUG	<.004	<.010	<.011	<.02	<.5	<.005	<2	.02	<.034	<.02	<.5	<.005	E.1
20													
SEP 10													
	 DA	 Te	FYROL PCF, WATER, FLTERD REC (µg/L) (62088)	TRIAL- LATE WATER FLIRD 0.7 µ GF, REC (µg/L) (82678)	TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62089)	TRICLO- SAN, WATER, FLTERD REC (µg/L) (62090)	TRI- ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	TRIPHNL PHOS-PHATE, WATER, FLTERD REC (µg/L) (62092)	TRIS(2-BUTOXE—PHOS-PHATER, WATER, FLTERD (µg/L)(62093)			
	OCT 0	4	PCF, WATER, FLTERD REC (µg/L)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L)	TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L)	SAN, WATER, FLTERD REC (µg/L)	ETHYL CITRATE WATER, FLTERD REC (µg/L)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L)	PHOS- PHATE, WATER, FLTERD REC (µg/L)	BUTOXE— PHOS- PHATE, WATER, FLTERD (µg/L)			
	OCT 0 NOV 0	4 7	PCF, WATER, FLTERD REC (µg/L) (62088)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (µg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE- PHOS- PHATE, WATER, FLTERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC	4 7	PCF, WATER, FLTERD REC (µg/L) (62088)	LATE WATER FLIRD 0.7 µ GF, REC (µg/L) (82678)	TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (µg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE— PHOS- PHATE, WATER, FLTERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC 1	4 7 2 9	PCF, WATER, FLTERD REC (µg/L) (62088)	LATE WATER FLTRD 0.7 μ GF, REC (μg/L) (82678)	TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (µg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82661)	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE— PHOS- PHATE, WATER, FLTERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC 1 1 JAN 2	4 7 2 9	PCF, WATER, FLTERD REC (µg/L) (62088)	LATE WATER FLTRD 0.7 μ GF, REC (μg/L) (82678) <.002	TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (µg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE— PHOS- PHATE, WATER, FLTERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC 1 1 JAN 2 FEB 2	4 7 2 9 4	PCF, WATER, FLTERD REC (µg/L) (62088)	LATE WATER FLIRD 0.7 µ GF, REC (µg/L) (82678)	TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (µg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE—PHOS-PHATE, WATER, FLITERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC 1 1 1 JAN 2 FEB 2	4 7 2 9 4	PCF, WATER, FLTERD REC (µg/L) (62088)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  < <.002	TRIBUTL PHOS- PHATE, WATER, FLITERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (µg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <.009	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE— PHOS- PHATE, WATER, FLTERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC 1 1 JAN 2 FEB 2 MAR 1	4 7 2 9 4 0	PCF, WATER, FLTERD REC (µg/L) (62088)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <.002 <.002 <.002 <.002	TRIBUTL PHOS- PHATE, WATER, FLITERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (μg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <.009 E.003 E.004	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE—PHOS-PHATE, WATER, FLITERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC 1 1 JAN 2 FEB 2 2 MAR 1 1 2 2	4 7 2 9 4 0 9 9	PCF, WATER, FLTERD REC (μg/L) (62088)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <-002 <-002 <.002 <.002 <.010	TRIBUTL PHOS- PHATE, WATER, FLITERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (µg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <.009 E.003 E.004 <.009	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE— PHOS— PHATE, WATER, FLTERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC 1 1 JAN 2 FEB 2 2 MAR 1 1 2 2	4 7 2 9 4 0 9 9 9	PCF, WATER, FLTERD REC (µg/L) (62088)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <.002 <.002 <.002 <.002	TRIBUTL PHOS- PHATE, WATER, FLITERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (μg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <.009 E.003 E.004	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE—PHOS-PHATE, WATER, FLITERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC 1 1 JAN 2 FEB 2 MAR 1 1 2 2 APR 2 MAY 2	4 7 2 9 4 0 9 9 9 9	PCF, WATER, FLTERD REC (µg/L) (62088)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <-002 <-002 <.002 <.002 <.010	TRIBUTL PHOS- PHATE, WATER, FLITERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (µg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <.009 E.003 E.004 <.009	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE— PHOS— PHATE, WATER, FLTERD (µg/L) (62093)			
	OCT 0 NOV 0 DEC 1 1 JAN 2 FEB 2 MAR 1 1 2 2 MAR 2 2 MAR 2 2 MAR 2 2 MAR 2 2 MAR 2 2 MAR 2 2 MAR 2 1 1 1 2 MAR 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 7 2 9 4 0 9 9 9 9	PCF, WATER, FLTERD REC (μg/L) (62088)	LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)  <-002 <-002 <-010 <-002	TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62089)	SAN, WATER, FLTERD REC (µg/L) (62090)	ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)  <-009 E.003 E.004 <.009 <.009	PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE—PHOS—PHOS—PHATE, WATER, FLITERD (µg/L) (62093)			

AUG 20... SEP

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### 07052250 JAMES RIVER NEAR BOAZ, MO

LOCATION.--Lat  $37^{\circ}00^{\circ}25^{\circ}$ , long  $93^{\circ}21^{\circ}50^{\circ}$ , in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.32, T.27 N., R.22 W., Christian County, Hydrologic Unit 11010002, on left bank 150 ft downstream from Frazier Bridge, 0.2 mi upstream from Turkey Hollow, and 2.0 mi southeast of Boaz.

DRAINAGE AREA. -- 462 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PREIOD OF RECORD.--October 1972 to September 1980, October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1035.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are fair. Partially regulated at low flow by Lake Springfield and sewage effluent from Southwest Treatment Plant.

		DISCHAR	RGE, CUBIC	C FEET PEF	SECOND,	WATER YE MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	89	203	248	5060	245	589	671	537	156	103	72
2	49	179	224	233	2180	503	533	561	496	156	96	67
3	49	197	217	221	1490	1100	474	490	458	168	92	67
4	47	143	191	205	1160	952	433	438	426	167	82	71
5	162	131	169	196	937	779	393	397	401	145	76	75
6	207	125	152	191	798	714	370	375	e392	138	76	69
7	120	117	135	188	695	695	353	408	e401	125	73	67
8	91	108	121	177	620	648	610	13400	e374	122	72	65
9	81	103	108	174	552	585	1120	12200	e340	120	68	62
10	213	98	101	169	492	600	1020	4580	e323	118	78	64
11	582	87	97	160	446	550	811	2590	e306	331	67	64
12	325	85	153	150	407	503	694	1920	e290	233	66	62
13	231	87	257	147	372	461	609	2590	e387	247	69	60
14	215	85	234	147	346	437	568	2260	e374	467	109	61
15	187	82	269	136	323	401	565	1670	e309	251	171	61
16	192	77	1130	131	301	367	506	1310	e252	198	133	61
17	157	77	4310	127	282	353	477	4310	e245	174	120	64
18	145	72	2930	126	268	343	440	7820	e230	172	278	62
19	126	88	1700	125	306	548	418	2870	e242	204	180	59
20	113	128	1200	121	373	2030	736	1960	e227	468	150	100
21	110	104	950	123	327	1510	1310	1510	e210	303	124	77
22	106	91	794	127	306	1090	1100	1220	e197	211	103	62
23	215	80	676	138	292	897	848	1070	e190	199	103	60
24	244	79	574	235	281	775	725	1090	e193	188	176	62
25	174	79	488	202	275	1480	661	977	e238	162	199	61
26 27 28 29 30 31	137 113 111 104 99 97	73 76 84 126 201	436 390 352 318 288 267	244 243 228 218 355 2020	258 243 233 	1720 1230 1020 884 767 665	667 650 626 551 669	822 729 670 775 672 596	290 213 224 224 178	147 136 119 113 115	147 138 126 108 95 82	60 58 56 56 53
MEAN	156	105	627	242	701	802	651	2353	306	192	115	64.6
MAX	582	201	4310	2020	5060	2030	1310	13400	537	468	278	100
MIN	47	72	97	121	233	245	353	375	178	111	66	53
IN.	0.39	0.25	1.56	0.60	1.58	2.00	1.57	5.87	0.74	0.48	0.29	0.16
	rics of Mo						•					
MEAN	226	705	465	380	565	1203	899	912	448	310	144	280
MAX	444	2292	1122	1105	1465	2106	1755	2353	1294	990	359	1222
(WY)	1978	1973	1974	1973	1975	1978	1973	2002	1974	1979	1979	1977
MIN	63.4	55.1	55.0	53.3	101	183	268	116	170	67.3	54.7	40.7
(WY)	1977	1977	1977	1977	1977	1976	1977	1977	1980	1980	1980	1980
SUMMARY	STATISTI	CS			FOR 20	02 WATER	YEAR			FOR P	ERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANTI ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY 1 PEAK FLO 1 PEAK STA PANEOUS LO RUNOFF (I ZENT EXCEE ZENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS			15.5 108 22	0 M 7 O 8 S 0 M 6 M 5 S	ay 8 ct 4 ep 24 ay 8 ay 8 ep 19			544 879 242 15400 36 31400 20.56 35 16.00 1170 245	Sep : Sep : Jul Jul	1973 1977 2 1972 22 1980 21 1980 1 1973 1 1973 19 2002

e Estimated

# 07052250 JAMES RIVER NEAR BOAZ, MO--Continued (Ambient Water-Quality Monitoring Network)

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1967 to September 1982, November 1983 to June 1987, November 1992 to current year.

DATE	TIME	SAMPLI TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 06	1405	ENVIRONM	ENTAL	74	16.7	177	8.5	580	17.0	220	76.4	6.30	4.68
MAR 19	1350	ENVIRONM		594	8.8	89	7.8	538	14.2				
APR 24	0915	ENVIRONM		735	9.4	106	7.8	401	18.9				
MAY 30	1040	ENVIRONM		668	9.2	106	7.9	425	19.6	190	67.8	5.23	2.01
JUN 18	1415	ENVIRONM		217	10.4	129	8.0	531	23.7	150		3.23	2.01
JUL				181	8.5		7.9	525	28.9				
22	1715	ENVIRONM	ENIAL	181	8.5	115	7.9	525	28.9				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 06 MAR	34.8	179	178	203	7	42.2	.3	35.5	<10	342	<.04	.28	3.03
19 APR		187	190	232	0				24		<.04	.47	4.15
24 MAY		146	148	181	0				14		<.04	.35	2.01
30 JUN	12.3	162	163	199	0	14.1	.1	10.4	18	180	<.04	.20	2.35
18 JUL		174	174	213	0				<10		<.04	.28	2.40
22		164	165	202	0				E15		<.04	.32	2.18
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µM-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 06	.010	.06	.06	.09	К3	K13	K7	23	58	3.6	.11	<.1	E4
MAR 19				.12	56		132	23	58	3.6	.11	<.1	£4 
APR	.022	.06	.06			220							
24 MAY	.022	E.05	.03	.09	K20	K140	K40						
30 JUN	.011	E.05	.03	<.06	230	480	309	23	123	.7	E.02	<.1	<6
18 JUL	E.006	.07	.05	.07	60	39	31						
22	.016	.09	.07	.11	K10	76	176						

# 07052250 JAMES RIVER NEAR BOAZ, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	1,4-DI- CHLORO- BENZENE DISSOLV (µg/L) (34572)	1METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)	26DIMET NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	2METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)
NOV 06	20	.14	М	5.5	<.01	4.9	15	12			<.002		
MAR 19											<.006		
APR 24											<.006		
MAY 30	15	.15	М	9.5	<.01	1.1		5	<.5	<.5	<.006	<.5	<.5
JUN 18									<.5	<.5	<.006	<.5	<.5
JUL 22									<.5	<.5	<.006	<.5	<.5
DATE	3-BETA- COPRO- STANOL, WATER, FLITERD REC (µg/L) (62057)	3METHYL 1(H)- INDOLE, WATER, FLITERD REC (µg/L) (62058)	3-TERT- BHA, WATER, FLTERD REC (µg/L) (62059)	4-CUMYL PHENOL, WATER, FLITERD REC (µg/L) (62060)	4-OCTYL PHENOL, WATER, FLITERD REC (µg/L) (62061)	4-TERT- OCTYL- PHENOL, WATER, FLITERD REC (µg/L) (62062)	5METHYL 1HBENZO TRIAZLE WATER, FLITERD REC (µg/L) (62063)	ACETO- CHLOR, WATER FLIRD REC (µg/L) (49260)	ACETO- PHENONE WATER, FLITERD REC (µg/L) (62064)	AHT NAPH- THALENE WATER, FLITERD REC (µg/L) (62065)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ANTHRA- CENE DISSOLV (µg/L) (34221)
NOV 06 MAR								<.004			<.002	<.005	
19 APR								<.006			<.004	<.005	
24 MAY								<.006			<.004	<.005	
30 JUN	<2	<1	<5	<1	<1	<1	<2	<.006	<.5	E.1	<.004	<.005	<.5
18 JUL	<2	<1	М	<1	M	<1	<2	<.006	<.5	E.1	<.004	<.005	М
22	<2	<1	<5	<1	<1	<1	<2	<.006	<.5	<.5	<.004	<.005	<.5
DATE	ANTHRA- QUINONE WATER, FLITERD REC (µg/L) (62066)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BENZO- A- PYRENE DISSOLV (µg/L) (34248)	BENZO- PHENONE WATER, FLITERD REC (µg/L) (62067)	BETA- SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	BISPHE- NOL A, WATER, FLTERD REC (µg/L) (62069)	BRO- MACIL, WATER, DISS, REC (µg/L) (04029)	BROMO- FORM DISSOLV (µg/L) (34288)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAF- FEINE, WATER FLTRD REC (µg/L) (50305)	CAMPHOR WATER, FLTERD REC (µg/L) (62070)	CAR- BARYL WATER FLIRD 0.7 µ GF, REC (µg/L) (82680)
NOV 06		<.007	<.010							<.002			<.050
MAR 19		<.007	<.010							<.002			<.041
APR 24		.009	<.010							<.002			<.041
MAY 30 JUN	<.5	.009	<.010	<.5	М	<2	М	E.1	<.5	<.002	E.1	<.5	<.041
18 JUL	E.1	.014	<.010	E.1	E.1	<2	<1	E.2	<.5	<.002	E.1	М	<.041
22	<.5	.009	<.010	<.5	M	<2	<1	<.5	E.2	<.002	E.1	<.5	E.008

# 07052250 JAMES RIVER NEAR BOAZ, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	CARBA- ZOLE, WATER, FLTERD REC (µg/L) (62071)	CARBO- FURAN WATER FLTRD 0.7 μ GF, REC (μg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CHOLES- TEROL, WATER, FLTERD REC (µg/L) (62072)	COT- ININE, WATER, FLTERD REC (µg/L) (62005)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 μ GF, REC (μg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	D-LIMO- NENE, WATER, FLTERD REC (µg/L) (62073)	EPTC WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)
NOV 06		<.020	<.005			<.018	<.003	<.006	<.005	<.005	<.02		<.002
MAR 19		<.020	<.005			<.018	<.003	E.003	.011	<.005	<.02		<.002
APR 24		<.020	<.005			<.018	<.003	<.006	.012	<.005	<.02		<.002
MAY 30 JUN	M	<.020	<.005	<2	<1	<.018	<.003	E.005	.007	<.005	<.02	<.5	<.002
18 JUL	<.5	<.020	<.005	<2	<1	<.018	<.003	<.006	<.005	<.005	<.02	<.5	<.002
22	<.5	<.020	<.005	М	<1	<.018	<.003	E.005	.014	<.005	<.02	<.5	<.002
DATE	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FLUOR- ANTHENE DISSOLV (µg/L) (34377)	FONOFOS WATER DISS REC (µg/L) (04095)	HHHMCP- BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	INDOLE, WATER, FLTERD REC (µg/L) (62076)	ISOBOR- NEOL, WATER, FLTERD REC (µg/L) (62077)	ISO- PHORONE DISSOLV (µg/L) (34409)	ISO- PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	ISO- QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)
NOV 06 MAR	<.009	<.005		<.003							<.004	<.035	<.027
19 APR	<.009	<.005		<.003							<.004	<.035	<.027
24 MAY	<.009	<.005		<.003							<.004	<.035	<.027
30 JUN	<.009	<.005	<.5	<.003	M	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027
18 JUL	<.009	<.005	E.1	<.003	E.1	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027
22	<.009	<.005	<.5	<.003	<.5	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027
DATE	MENTHOL WATER, FLITERD REC (µg/L) (62080)	METAL- AXYL WATER FLTRD REC (µg/L) (50359)	METHYL AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METHYL SALICY- LATE, WATER, FLTERD REC (µg/L) (62081)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLIRD 0.7 µ GF, REC (µg/L) (82671)	DEET, WATER, FLTERD REC (µg/L) (62082)	NAPHTH- ALENE DISSOLV (µg/L) (34443)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	NONYL- PHENOL, DIETHOX WATER, FLTERD REC (µg/L) (62083)	DI- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)
NOV 06			<.050	<.006		<.013	<.006	<.002			<.007		
MAR 19			<.050	<.006		<.013	<.006	<.002			<.007		
APR 24			<.050	<.006		<.013	<.006	<.002			.035		
MAY 30	<.5	<.5	<.050	<.200	<.5	<.013	<.006	<.002	E.1	<.5	<.007	<5	<1
JUN 18	<.5	E.1	<.050	<.006	<.5	<.013	<.006	<.002	E.1	<.5	<.007	М	<1
JUL 22	<.5	<.5	<.050	<.006	<.5	.017	<.006	<.002	М	<.5	<.007	<5	<1

# 07052250 JAMES RIVER NEAR BOAZ, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	MONO- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	PARA- CRESOL, WATER, FLTERD REC (µg/L) (62084)	PARA- NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PENTA- CHLORO- PHENOL DISSOLV (µg/L) (34459)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHENAN -THRENE DISSOLV (µg/L) (34462)	PHENOL WATER FILTRD (µg/L) (34466)	PHORATE WATER FLITRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)
NOV 06				<.003	<.007	<.002	<.010		<.006			<.011	.03
MAR 19				<.003	<.010	<.004	<.022		<.006			<.011	<.02
APR 24				<.003	<.010	<.004	<.022		<.006			<.011	E.01
MAY 30	<1	<1	<5	<.003	<.010	<.004	<.022	<2	<.006	<.5	E.4	<.011	.02
JUN 18	М	<1	E1	<.003	<.010	<.004	<.022	<2	<.006	E.1	<.5	<.011	.03
JUL 22	<1	<1	<5	<.003	<.010	<.004	<.022	<2	<.006	<.5	E.2	<.011	.06
DATE	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	PYRENE DISSOLV (µg/L) (34470)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	STIGMA- STANOL, WATER, FLTERD REC (µg/L) (62086)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	TETRA- CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	FYROL CEF, WATER, FLTERD REC (µg/L) (62087)
NOV 06 MAR	<.004	<.010	<.011	<.02		<.011		<.02	<.034	<.02		<.005	
19 APR	<.004	<.010	<.011	<.02		<.005		E.01	<.034	<.02		<.005	
24 MAY	<.004	<.010	<.011	<.02		<.005		<.02	<.034	<.02		<.005	
30 JUN	<.004	<.010	<.011	<.02	<.5	.022	<2	<.02	<.034	<.02	<.5	<.005	<.5
18 JUL	<.004	<.010	<.011	<.02	E.1	<.005	<2	<.02	<.034	<.02	<.5	<.005	E.1
22	<.004	<.010	<.011	<.02	<.5	<.005	<2	E.01	<.034	<.02	<.5	<.005	E.1
		חמיד	FYR PCF WAT FLTE	COL LAT , WAT ER, FLT ERD 0.7	ER PHA RD WAT	S- TRIC TE, SAN ER, WAT	I, CITE ER, WAT ERD FLTE	YL FLU RATE ALI CER, WAT CRD 0.7	N PHA FLT WAT μ FLTE	S- BUTC TE, PHC ER, PHA	XE— S- TE, ER,		

DATE	FYROL PCF, WATER, FLTERD REC (µg/L) (62088)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)		TRICLO- SAN, WATER, FLTERD REC (µg/L) (62090)	TRI- ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	TRIPHNL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	TRIS(2- BUTOXE— PHOS- PHATE, WATER, FLTERD (µg/L)
	(62088)	(82678)	(62089)	(62090)	(62091)	(82001)	(62092)	(62093)
NOV								
06		<.002				<.009		
MAR								
19		<.002				<.009		
APR		. 000				. 000		
24 MAY		<.002				<.009		
30	М	<.002	М	<1	<.5	<.009	<.5	E.1
JUN	1.1	1.002	11	**	1.5	1.005	1.5	
18	E.1	<.002	E.1	M	E.1	<.009	E.1	E.1
JUL								
22	E.1	<.002	<.5	<1	<.5	<.009	<.5	<.5

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

# 07052345 FINLEY CREEK BELOW RIVERDALE, MO--Continued (Ambient Water-Quality Monitoring Network)

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

DATE JUN	TIME	SAMPLI TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
27 JUL	1025	ENVIRONM	ENTAL	59	7.7	94	7.8	381	23.4				
25 AUG	0845	ENVIRONM	ENTAL	38	7.3	95	8.0	384	26.3	180	55.1	10.7	2.75
21	1045	ENVIRONM	ENTAL	22	9.1	115	7.8	419	24.4				
SEP 10	1415	ENVIRONM	ENTAL	48	9.5	112	7.7	402	21.8	190	61.9	8.47	2.89
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
JUN	(	(001117)	( ,	(0000)	( ,	( ,	( ,	( ,	(00000)	( ,	(	(,	(
27 JUL		158	158	192	0						.05	.23	1.02
25	8.87	167	166	203	0	13.7	<.2	6.7	<10	204	E.02	.26	1.14
AUG 21		176	175	213	0						<.04	.23	1.91
SEP 10	9.58	172	174	213	0	15.3	<.2	7.4	<10	224	<.04	.24	1.61
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
DATE JUN 27	GEN, NITRITE DIS- SOLVED (mg/L as N)	PHORUS DIS- SOLVED (mg/L as P)	PHORUS ORTHO, DIS- SOLVED (mg/L as P)	PHORUS TOTAL (mg/L as P)	MTEC MF WATER (col./ 100 mL)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL)	STREP, KF STRP MF, WATER (col./ 100 mL)	INUM, DIS- SOLVED (µg/L as Al)	INUM, TOTAL RECOV- ERABLE (µg/L as Al)	DIS- SOLVED (µg/L as As)	DIS- SOLVED (µg/L as Cd)	WATER UNFLTRD TOTAL (µg/L as Cd)	DIS- SOLVED (µg/L as Cu)
JUN	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	MTEC MF WATER (col./ 100 mL) (31633)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	INUM, DIS- SOLVED (µg/L as Al)	INUM, TOTAL RECOV- ERABLE (µg/L as Al)	DIS- SOLVED (µg/L as As)	DIS- SOLVED (µg/L as Cd)	WATER UNFLTRD TOTAL (µg/L as Cd)	DIS- SOLVED (µg/L as Cu) (01040)
JUN 27 JUL	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	MTEC MF WATER (col./ 100 mL) (31633)	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	INUM, DIS- SOLVED (µg/L as Al) (01106)	INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	DIS- SOLVED (µg/L as As) (01000)	DIS- SOLVED (µg/L as Cd) (01025)	WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	DIS- SOLVED (µg/L as Cu) (01040)
JUN 27 JUL 25 AUG 21 SEP	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .019 .012	PHORUS DIS- SOLVED (mg/L as P) (00666) .16 .24	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .17 .23	PHORUS TOTAL (mg/L as P) (00665)	MTEC MF WATER (col./ 100 mL) (31633) 36 K100	FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)  140 210	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 28 92 52	INUM, DIS- SOLVED (µg/L as Al) (01106) 11	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  95	DIS- SOLVED (µg/L as As) (01000)	DIS- SOLVED (µg/L as Cd) (01025)	WATER UNFLIRD TOTAL (µg/L as Cd) (01027)  <.1	DIS- SOLVED (µg/L as Cu) (01040)
JUN 27 JUL 25 AUG 21	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .019	PHORUS DIS- SOLVED (mg/L as P) (00666)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHORUS TOTAL (mg/L as P) (00665)	MTEC MF WATER (col./ 100 mL) (31633) 36 K100	FORM, FECAL, 0.7 µm-MF (col./100 mL) (31625)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	INUM, DIS- SOLVED (µg/L as Al) (01106)	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	DIS- SOLVED (µg/L as As) (01000)	DIS- SOLVED (µg/L as Cd) (01025)	WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	DIS- SOLVED (µg/L as Cu) (01040)
JUN 27 JUL 25 AUG 21 SEP 10	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .019 .012 .014 .009  IRON, DIS- SOLVED (µg/L as Fe) (01046)	PHORUS DIS- SOLVED (mg/L as P) (00666)  .16 .24 .28 .20  LEAD, DIS- SOLVED (µg/L as Pb) (01049)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671) .17 .23 .27 .18 LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	PHORUS TOTAL (mg/L as P) (00665)  .19 .26 .29 .22  MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MTEC MF WATER (col./ 100 mL) (31633)  36 K100 160 100  MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	FORM, FECAL, 0.7 pm-MF (col./ 100 mL) (31625)  140 210 130 170  ZINC, DIS-SOLVED (µg/L as Zn)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673) 28 92 52 49 ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	INUM, DIS- SOLVED (µg/L as Al) (01106)  11 18  2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  95 72  ACETO- CHLOR, WATER FLIRD REC (µg/L) (49260)	DIS- SOLVED (µg/L as As) (01000)  .4  .5 ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	DIS- SOLVED (µg/L as Cd) (01025)  <8  <8 ALPHA BHC DIS- SOLVED (µg/L) (34253)	WATER UNFLIRD TOTAL (µg/L as Cd) (01027)  <.1 <.1  ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)	DIS- SOLVED (µg/L as Cu) (01040)  <5  <5 BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)
JUN 27 JUL 25 AUG 21 SEP 10  DATE  JUN 27 JUL 27 JUL	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .019 .012 .014 .009  IRON, DIS- SOLVED (µg/L as Fe) (01046)	PHORUS DIS- SOLVED (mg/L as P) (00666)  .16 .24 .28 .20  LEAD, DIS- SOLVED (µg/L as Pb) (01049)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  .17 .23 .27 .18  LEAD, TOTAL RECOV- ERABLE (μg/L as Pb) (01051)	PHORUS TOTAL (mg/L as P) (00665)  .19 .26 .29 .22  MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MTEC MF WATER (col./ 100 mL) (31633)  36 K100 160 100  MERCURY TOTAL RECOV- ERABLE (mg/L as Hg) (71900)	FORM, FECAL, 0.7 pm-MF (col./100 mL) (31625)  140 210 130 170  ZINC, DIS-SOLVED (µg/L as Zn) (01090)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)  28  92  52  49  ZINC, TOTAL RECOV— ERABLE (µg/L as Zn) (01092)	INUM, DIS- SOLVED (µg/L as Al) (01106)  11 18  2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  95 72  ACETO- CHLOR, WATER FLITE REC (µg/L) (49260)  <.004	DIS- SOLVED (µg/L as As) (01000)  .4  .5 ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	DIS- SOLVED (µg/L as Cd) (01025)  <8 <8  ALPHA BHC DIS- SOLVED (µg/L) (34253) <.005	WATER UNFLIRD TOTAL (µg/L as Cd) (01027)  <.1 <.1  ATRA- ZINE, WATER, DISS, REC (µg/L) (39632) <.007	DIS- SOLVED (µg/L as Cu) (01040)  <5  <5 BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)
JUN 27 JUL 25 AUG 21 SEP 10  DATE  JUN 27 JUL 25 AUG 21	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .019 .012 .014 .009  IRON, DIS- SOLVED (µg/L as Fe) (01046)	PHORUS DIS- SOLVED (mg/L as P) (00666)  .16 .24 .28 .20  LEAD, DIS- SOLVED (µg/L as Pb) (01049) 08	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  .17 .23 .27 .18  LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	PHORUS TOTAL (mg/L as P) (00665)  .19 .26 .29 .22  MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)  10.3	MTEC MF WATER (col./ 100 mL) (31633)  36 K100 160 100  MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01	FORM, FECAL, 0.7 pm-MF (col./100 mL) (31625)  140 210 130 170  ZINC, DIS-SOLVED (µg/L as Zn) (01090)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)  28 92 52 49  ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  14	INUM, DIS- SOLVED (µg/L as Al) (01106)  11 18  2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002	INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)  95 72  ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)  <.004 <.004	DIS- SOLVED (µg/L as As) (01000)  .4  .5 ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342) <.002	DIS- SOLVED (µg/L as Cd) (01025)  <8  <8  <8  (8 BHC DIS- SOLVED (µg/L) (34253) <.005	WATER UNFLIRD TOTAL (μg/L as Cd) (01027)  <.1 <.1  ATRA- ZINE, WATER, DISS, REC (μg/L) (39632) <.007	DIS- SOLVED (µg/L as Cu) (01040)  <5  <5  <5 BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673) <.010
JUN 27 JUL 25 AUG 21 SEP 10  DATE  JUN 27 JUL 25	GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)  .019 .012 .014 .009  IRON, DIS- SOLVED (µg/L as Fe) (01046)	PHORUS DIS- SOLVED (mg/L as P) (00666)  .16 .24 .28 .20  LEAD, DIS- SOLVED (µg/L as Pb) (01049)	PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)  .17 .23 .27 .18  LEAD, TOTAL RECOV- ERABLE (μg/L as Pb) (01051)	PHORUS TOTAL (mg/L as P) (00665)  .19 .26 .29 .22  MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MTEC MF WATER (col./ 100 mL) (31633)  36 K100 160 100  MERCURY TOTAL RECOV- ERABLE (mg/L as Hg) (71900)	FORM, FECAL, 0.7 pm-MF (col./100 mL) (31625)  140 210 130 170  ZINC, DIS-SOLVED (µg/L as Zn) (01090)	STREP, KF STRP MF, WATER (col./ 100 mL) (31673)  28  92  52  49  ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	INUM, DIS- SOLVED (µg/L as Al) (01106)  11 18  2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)  <.002	INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)  95 72  ACETO- CHLOR, WATER FLITE REC (µg/L) (49260)  <.004	DIS- SOLVED (µg/L as As) (01000)  .4  .5 ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	DIS- SOLVED (µg/L as Cd) (01025)  <8 <8  ALPHA BHC DIS- SOLVED (µg/L) (34253) <.005	WATER UNFLIRD TOTAL (µg/L as Cd) (01027)  <.1 <.1  ATRA- ZINE, WATER, DISS, REC (µg/L) (39632) <.007	DIS- SOLVED (µg/L as Cu) (01040)  <5  <5 BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)

# 07052345 FINLEY CREEK BELOW RIVERDALE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO- PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)
JUN 27 JUL	<.002	<.041	<.020	<.005	<.018	<.003	<.006	E.004	<.005	<.02	<.002	<.009	<.005
25 AUG	<.002	<.041	<.020	<.005	<.018	<.003	<.006	.007	<.005	<.02	<.002	<.009	<.005
21 SEP													
10													
DATE	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)
JUN 27 JUL	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
25 AUG	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
21 SEP													
10													
DATE	PENDI- METH- ALIN WAT FLT 0.7 μ GF, REC (μg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)
JUN 27 JUL	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02	<.005
25 AUG	<.010	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02	<.005
21													
SEP 10													

	TRIAL-	TRI-
	LATE	FLUR-
	WATER	ALIN
	FLTRD	WAT FLT
	0.7 μ	0.7 μ
DATE	GF, REC	GF, REC
	$(\mu g/L)$	
	(82678)	(82661)
JUN		
27	<.002	<.009
JUL 25	< .002	<.009
AUG	<.002	<.009
21		
SEP		
10		

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

#### 07052345 FINLEY CREEK BELOW RIVERDALE, MO

LOCATION.--Lat 36°58'30", long 93°19'39", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.10, T.26 N., R.10 W., Christian County, Hydrologic Unit 11010002, on downstream side of center pier of Aspen Road bridge, 12.4 mi southeast of junction of Highway 160 and 60. DRAINAGE AREA.--261 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PREIOD OF RECORD. -- October 2001 to current year.

GAGE. -- Water-stage recorder. Datum of gage is unknown.

REMARKS.--Water-discharge records good. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAY JUL AUG SEP 778 20 41 29 245 4190 130 20 37 151 534 157 e100 \_\_\_ MEAN 37.7 41 0 76 7 60 6 23 3 MAX MIN 0.30 0.32 3.24 0.83 1.17 0.62 0.49 0.18 IN. 3.00 4.28 4.43 11.3

STIMMARY	STATISTICS
DOMEST	DIVITOTICE

ANNUAL MEAN
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
MAXIMUM PEAK FLOW
MAXIMUM PEAK STAGE
INSTANTANEOUS LOW FLOW
ANNUAL RUNOFF (INCHES)
10 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 2002 WATER YEAR

10500 May 8 19 Oct 3,4,Sep 14 20 Sep 12 21400 May 8 16.31 May 8 18 Oct 4,5,Sep 28 30.16 

e Estimated

# 07052345 FINLEY CREEK BELOW RIVERDALE, MO--Continued (Ambient Water-Quality Monitoring Network)

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

DATE	TIME	SAMP: TYP:		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 04	1235	ENVIRON	MENTAL	19	10.3	113	7.9	434	18.4				
NOV 06	1130	ENVIRON	MENTAL	41	9.8	99	7.9	422	14.3	200	63.0	10.1	2.22
DEC 16	1245	ENVIRON		580	9.5	88	7.6	331	10.4	160	52.1	7.94	2.38
16 18	1246 1410	REPLICA' ENVIRON		1670	10.3	96	7.5	289	10.3	150 	49.2	7.55 	2.35
JAN 23 FEB	1145	ENVIRON	MENTAL	59	14.4	128	8.5	370	8.3	180	57.5	8.86	1.59
20 MAR	1030	ENVIRON	MENTAL	151	12.8	119	7.9	357	9.7				
19 19	1145 2100	ENVIRON ENVIRON		301 688	10.3 9.5	97 89	7.7 6.9	318 316	10.8 10.8	 160	 49.0	 7.95	 1.89
APR 22	1625	ENVIRON	MENTAL	790	13.2	140	7.7	252	16.5				
MAY 30	0845	ENVIRON	MENTAL	359	11.4	123	7.7	311	16.8	150	52.0	5.73	.88
JUN 18	1215	ENVIRON	MENTAL	130	9.1	107	8.0	357	21.6				
JUL 24 AUG	0915	ENVIRON	MENTAL	89	7.4	89	7.8	358	22.8	180	61.4	6.61	2.90
20 SEP	0845	ENVIRON	MENTAL	67	5.9	73	7.8	355	24.1				
10	0910	ENVIRON	MENTAL	22	6.2	75	7.8	406	23.0	180	58.4	7.97	2.97
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
DATE  OCT  04	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as C1)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 04 NOV 06	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 04 NOV 06 DEC 16 18	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 04 NOV 06 DEC 16 18 JAN 23	DIS- SOLVED (mg/L as Na) (00930)  10.1 4.93 4.89	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 175 164 139 139	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 175 161 141 139	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 214 200 172 169	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> )(00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  16.1 10.4 10.7	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 28 30	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .20 .18 .32 .32	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) 1.84 1.31 1.45 1.45
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20	DIS- SOLVED (mg/L as Na) (00930) 10.1 4.93 4.89	WATER UNFLIRED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  175 164 139 139 119	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 175 161 141 139 120	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 214 200 172 169 147	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  16.1 10.4	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 28 30 32	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .20 .18 .32 .32 .40	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) 1.84 1.31 1.45 1.45
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19	DIS- SOLVED (mg/L as Na) (00930)  10.1 4.93 4.89  8.33	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  175 164 139 139 119	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 175 161 141 139 120	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 214 200 172 169 147	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 6	RIDE, DIS- SOLVED (mg/L as C1) (00940)  16.1 10.4 10.7  14.6	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  8.6 6.5 6.6  7.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 28 30 32 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .20 .18 .32 .32 .40 .13 .15	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.84  1.31  1.45 1.45 1.89 1.56 1.82 1.25
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19	DIS- SOLVED (mg/L as Na) (00930)  10.1 4.93 4.89  8.33	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  175 164 139 139 119 160 162 148	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 175 161 141 139 120 159 162 149	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 214 200 172 169 147 182 197	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  16.1 10.4 10.7  14.6	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1 <.1 <.1 	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  8.6 6.5 6.6  7.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 28 30 32 <10 10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .20 .18 .32 .32 .40 .13	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) 1.84 1.31 1.45 1.45 1.89 1.56
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 APR 22 MAY	DIS- SOLVED (mg/L as Na) (00930) 10.1 4.93 4.89 8.33	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  175 164 139 139 119 160 162 148 133	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 175 161 141 139 120 159 162 149 132	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  214 200 172 169 147 182 197 181 162	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- DIS- SOLVED (mg/L as C1) (00940)  16.1 10.4 10.7 14.6 10.7	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1 <.1 <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  8.6 6.5 6.6  7.2  6.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 28 30 32 <10 10 <10 10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  236 178 182  214  176	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .20 .18 .32 .32 .40 .13 .15	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.84  1.31  1.45 1.45 1.89  1.56  1.82 1.25
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR 22 MAY 30 JUN 18	DIS- SOLVED (mg/L as Na) (00930)  10.1 4.93 4.89  8.33	WATER UNFLIRED (1971 A) (1972	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  175  161  141  139  120  159  162  149  132  102	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  214 200 172 169 147 182 197 181 162 124	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  16.1 10.4 10.7  14.6	RIDE, DIS- SOIVED (mg/L as F) (00950)  <.1 <.1 <.1 <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  8.6 6.5 6.6  7.2  6.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 28 30 32 <10 10 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  236 178 182  214  176	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .20 .18 .32 .32 .40 .13 .15 .12 .19	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.84 1.31 1.45 1.45 1.89 1.56 1.82 1.25 1.21
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR 22 MAY 30 JUN 18 JUL 24	DIS- SOLVED (mg/L as Na) (00930) 10.1 4.93 4.89 8.33 5.08 4.60	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  175 164 139 139 119 160 162 148 133 101 155	WATER UNFLITD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 175 161 141 139 120 159 162 149 132 102	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 214 200 172 169 147 182 197 181 162 124	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  16.1 10.4 10.7  14.6  10.7  8.51	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1 <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  8.6 6.5 6.6  7.2  6.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 28 30 32 <10 10 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  236 178 182  214  176  176	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .20 .18 .32 .32 .40 .13 .15 .12 .19 .19	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.84  1.31  1.45 1.45 1.89  1.56  1.82 1.25 1.21 .99
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 APR 22 MAY 30 JUN 18	DIS- SOLVED (mg/L as Na) (00930) 10.1 4.93 4.89 8.33 5.08 4.60	WATER UNFLIRED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  175 164 139 139 119 160 162 148 133 101 155	WATER UNFLITED   TT   FIELD (mg/L as CaCO <sub>3</sub> ) (00419)   175   161   141   139   120   159   162   149   132   102   157   160	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  214 200 172 169 147 182 197 181 162 124 191	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- DIS- SOLVED (mg/L as C1) (00940)  16.1  10.4 10.7 14.6 10.7 8.51	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1 <.1 <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  8.6 6.5 6.6  7.2  6.1  4.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 28 30 32 <10 10 <10 <10 <10 <10 11 <10 12 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  236 178 182  214  176  178	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .20 .18 .32 .32 .40 .13 .15 .12 .19 .19 .16 .14	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.84  1.31  1.45 1.45 1.89  1.56  1.82  1.25 1.21 .99 .96 1.35

# 07052345 FINLEY CREEK BELOW RIVERDALE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 04	.029	.30	.23	. 29	25	31	K10						
NOV 06	.012	.16	.14	.17	24	46	29	12	23	.2	E.03	<.1	<6
DEC 16	<.008	.06	.06	.09	1600	7700	2300	<1	272	.2	<.04	<.1	<6
16 18	<.008 .013	.06 E.04	.06	.10 .08	1000	 560	2450	<1	268	.2	<.04	<.1	<6 
JAN 23 FEB	<.008	.07	.08	.09	K2	38	K5	11	22	.3	E.02	<.1	E3
20 MAR	.006	.06	.06	.07	34	<1	K19						
19 19	E.006 <.008	<.06 E.04	.03	E.04 E.05	K69 K280	687 1460	136 1040	3	 115	.2	<.04	<.1	 <6
APR 22	.012	E.06	.03	.07	K4	390	88						
MAY 30	.013	E.04	<.02	E.05	950	K530	K5140	73	129	.2	<.04	<.1	<6
JUN 18	.008	.10	.08	.09	K25	50	33						
JUL 24	.009	.15	.14	.17	44	98	680	1	157	. 4	<.04	<.1	<6
AUG 20	E.006	.16	.15	.16	73	245	245						
SEP 10	.013	.24	.25	.25	36	K58	76	1	51	.5	E.02	<.1	<6
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L)	ZINE, WATER, DISS, REC (µg/L)
OCT 04 NOV 06	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L)	CHLOR, WATER FLTRD REC (µg/L)	CHLOR, WATER, DISS, REC, (µg/L)	BHC DIS- SOLVED (µg/L)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04 NOV 06 DEC 16	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 7	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)	CHLOR, WATER FLTRE FLTRE (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04 NOV 06 DEC 16 18	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04 NOV 06 DEC 16 18 JAN 23	DIS- SOLVED (µg/L as Fe) (01046)  E8 E6 E5	DIS- SOLVED (µg/L as Pb) (01049)  E.05 E.05 E.07	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 1 1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.7 6.5 7.1	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.002	CHLOR, WATER FLTRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20	DIS- SOLVED (µg/L as Fe) (01046)  E8 E6 E5	DIS- SOLVED (µg/L as Pb) (01049)  E.05 E.05 E.07	TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.7 6.5 7.1	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  7 6 8	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.002	CHLOR, WATER FLITED REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DTS- SOLVED (µg/L) (34253)  <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)   <.007 <.007
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19	DIS- SOLVED (µg/L as Fe) (01046)  E8 E6 E5  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.05 E.05 E.07  E.07	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 1 1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.7 6.5 7.1  5.3	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 <.3  .5	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  7 6 8 6	ETHYL ANILINE UNT FIT 0.7 μ GF, REC (μg/L) (82660)  <.002 <.002 <.006	CHLOR, WATER FITRD REC (µg/L) (49260)  <.004 <.004 < <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <-002 <-002 <-004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007 <.007   <.007
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR	DIS- SOLVED (µg/L as Fe) (01046)  E8 E6 E5  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.05 E.05 E.07  E.07	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)  <1 1 1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.7 6.5 7.1  5.3	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.01 E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 <.3  .5	DIS- SOLVED (µg/L as Zn) (01090)  2 2 2  3	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  7 6 8 6 6	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  < <.002 <.002 < <.006 <.006	CHLOR, WATER FLITED REC (µg/L) (49260)  <.004 <.004 <.006 <.006	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253) <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632) 
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 APR 22 MAY	DIS- SOLVED (µg/L as Fe) (01046)  E8 E6 E5  <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.05 E.05 E.07  E.07	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 1 1 <1 <1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.7 6.5 7.1  5.3	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 <.3  .5	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  7 6 8 6 6	ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)  < <.002 <.002 < <.006 <.006 <.006	CHLOR, WATER FLITED REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)   <.007 <.007   <.007 <.007 E.007
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR 22 MAY 30 JUN	DIS- SOLVED (µg/L as Fe) (01046)  E8 E6 E5  <10  10	DIS- SOLVED (µg/L as Pb) (01049)  E.05 E.05 E.07  E.07	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 1 1 <1 <1 <1 M	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.7 6.5 7.1 5.3 6.2 7.1	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 <.01 E.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 <.3  .5  E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  7  6 8 6  6  3	ETHYL ANILINE UNT FIT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002 <.006 <.006 <.006 <.006	CHLOR, WATER FITTED REC (µg/L) (49260)  <	CHLOR, WATER, DISS, REC, (µg/L) (46342)  <-002 <-002 <-004 <-004 <-004 <-004	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007 <.007 <.007 <.007 E.006
OCT 04 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR 22 MAY 30 JUN 18 JUL	DIS- SOLVED (µg/L as Fe) (01046)  E8 E6 E5 <10 54	DIS- SOLVED (µg/L as Pb) (01049)  E.05 E.05 E.07  E.07  <.08	TOTAL RECOV-ERABLE (µg/L as Pb) (01051)  <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.7 6.5 7.1 5.3 6.2 7.1	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.01 E.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 <.3  .5  E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  7  6 8 6  6  3	ETHYL ANILINE UNT FLT 0.7 μ GF, REC (μg/L) (82660)  <-002 <.002 <.002 <.006 <.006 <.006 <.006	CHLOR, WATER WATER FLITED REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <-0007 <-0007 <-0007  E.0007  E.0006 <-0007
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 22 MAY 30 JUN 18 JUN 24	DIS- SOLVED (µg/L as Fe) (01046)  E8 E6 E5 <10 54 <10	DIS- SOLVED (µg/L as Pb) (01049)  E.05 E.05 E.07   <.08	TOTAL RECOV-ERABLE (µg/L as Pb) (01051)  <1    1    1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.7 6.5 7.1 5.3 6.2 7.1 7.7	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 <.3  .5  E.3  E.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  7 6 8 6 6 5	ETHYL ANILINE UNT FIT 0.7 µ GF, REC (µg/L) (82660)  <.002 <.002 <.006 <.006 <.006 <.006 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <.007 <.007 <.007 <.007 E.007  E.006 <.007
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR 22 MAY 30 JUN 18 JUN 18	DIS- SOLVED (µg/L as Fe) (01046)  E8 E6 E5 <10 54	DIS- SOLVED (µg/L as Pb) (01049)  E.05 E.05 E.07  E.07  <.08	TOTAL RECOV-ERABLE (µg/L as Pb) (01051)  <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  4.7 6.5 7.1 5.3 6.2 7.1	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 <.01 E.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 <.3  .5  E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  7  6 8 6  6  3	ETHYL ANILINE UNT FLT 0.7 μ GF, REC (μg/L) (82660)  <-002 <.002 <.002 <.006 <.006 <.006 <.006	CHLOR, WATER WATER FLITED REC (µg/L) (49260)	CHLOR, WATER, DISS, REC, (µg/L) (46342)	BHC DIS- SOLVED (µg/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (µg/L) (39632)  <-0007 <-0007 <-0007  E.0007  E.0006 <-0007

# 07052345 FINLEY CREEK BELOW RIVERDALE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)
OCT 04													
NOV 06													
DEC 16 16 18 JAN	<.010 <.010 	<.002 <.002	<.041 <.041 	<.020 <.020 	<.005 <.005 	<.018 <.018	<.003 <.003	<.006 <.006	E.002 <.005	<.005 <.005 	<.02 <.02 	<.002 <.002 	<.009 <.009 
23 FEB													
20 MAR													
19 19 APR	<.010 <.010	<.002 <.002	<.041 <.041	<.020 <.020	<.005 <.005	<.018 <.018	<.003 <.003	<.006 <.006	<.005 E.001	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009
22 MAY	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	.007	<.005	<.02	<.002	<.009
30 JUN	<.010	<.002	E.003	<.020	<.005	<.018	<.003	<.006	.011	<.005	<.02	<.002	<.009
18 JUL	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	.007	<.005	<.02	<.002	<.009
24 AUG	<.010	<.002	E.020	<.020	<.005	<.018	<.003	E.005	.020	<.005	<.02	<.002	<.009
20 SEP													
10													
DATE	ETHO- PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (μg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLITRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)
OCT 04	PROP WATER FLTRD 0.7 µ GF, REC (µg/L)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L)
OCT 04 NOV 06	PROP WATER FLITRD 0.7 μ GF, REC (μg/L) (82672)	WATER DISS REC (µg/L)	DIS- SOLVED (µg/L)	URON WATER FLTRD 0.7 µ GF, REC (µg/L)	THION, DIS- SOLVED (µg/L)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L)	LACHLOR WATER DISSOLV (µg/L)	BUZIN SENCOR WATER DISSOLV (µg/L)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L)	AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L)	DDE DISSOLV (µg/L)	THION, DIS- SOLVED (µg/L) (39542)
OCT 04 NOV 06 DEC 16 18	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	THION, DIS- SOLVED (µg/L) (39532)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	DDE DISSOLV (µg/L) (34653)	THION, DIS- SOLVED (µg/L) (39542)
OCT 04 NOV 06 DEC 16 18 JAN 23	PROP WATER FLITRD 0.7 μ GF, REC (μg/L) (82672)   <.005 <.005	WATER DISS REC (µg/L) (04095)	DIS- SOLVED (µg/L) (39341)   <.004 <.004	URON WATER FLTRD 0.7 μ GF, REC (μg/L) (82666)  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)   <.050 <.050	PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)   <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671) <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007	DDE DISSOLV (µg/L) (34653) <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)  <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLIT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  < <.002 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007	DDE DISSOLV (µg/L) (34653)   <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)  <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)	PARA- THION WAT FLIT 0.7 µ GF, REC (µg/L) (82667)	LACHLOR WATER DISSOLV (µg/L) (39415)	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  < <.002 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007	DDE DISSOLV (µg/L) (34653)   <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  < < < < < < < < < < < < < < <	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)  <.050 <.050   <.050	PARA- THION WAT FLIT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006   <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <-013 <-013 <-013 <-013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006   <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007 <.010
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR 22 MAY 30	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <-0.035 <.035 <-0.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050 <.050  <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 <.013 <.013 <.013 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006  <.006 <.006 <.006	INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <-0007 <.007 <-007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007 <.010 <.010
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR 22 MAY 30 JUN 18	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  < <-003 <-003 < <-003 <-003 <-003 <-003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  < <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  < < < < < < < < < < < < <	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050 <.050  <.050 <.050 <.050 <.050	PARA- THION WAT FLIT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006   <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 <.013 <.013 <.013 <.013 <.013 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006  <.006 <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007 <.010 <.010
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR 22 MAY 30 JUN 18 JUN 18	PROP WATER FLITRD 0.7 µ GF, REC (µg/L) (82672)  <.005 <.005 <.005 <.005 <.005 <.005	WATER DISS REC (µg/L) (04095)  <.003 <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <-035 <-035 <-035 <-035 <-035 <-035 <-035 <-035 <-035 <-035	THION, DIS- SOLVED (µg/L) (39532)  < < < < < < < < < < < < <	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	PARA- THION WAT FLIT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006   <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 <.013 <.013 <.013 <.013 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006   <.006 <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 µ GF, REC (µg/L) (82671)  <-002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010
OCT 04 NOV 06 DEC 16 18 JAN 23 FEB 20 MAR 19 19 APR 22 MAY 30 JUN 18 JUL	PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	WATER DISS REC (µg/L) (04095)  < <.003 <.003 < <.003 <.003 <.003 <.003 <.003	DIS- SOLVED (µg/L) (39341)  <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)  <-0.035 <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (µg/L) (39532)  <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μg/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050	PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	LACHLOR WATER DISSOLV (µg/L) (39415)  <.013 <.013 <.013 <.013 <.013 <.013 <.013 <.013 <.013	BUZIN SENCOR WATER DISSOLV (µg/L) (82630)  <.006 <.006  <.006 <.006 <.006 <.006 <.006	INATE WATER WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLTRD 0.7 μ GF, REC (μg/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (µg/L) (34653)  < <.003 <.003 < <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (µg/L) (39542)  <-0007 <-007 <-010 <-010 <-010 <-010 <-010

### 07052345 FINLEY CREEK BELOW RIVERDALE, MO--Continued (Ambient Water-Quality Monitoring Network)

	PEB- ULATE	PENDI- METH-	PER- METHRIN	PHORATE	PRO-	PRON- AMIDE	PROPA-	PRO- PANIL	PRO- PARGITE	SI-	TEBU- THIURON	TER- BACIL	TER- BUFOS
	WATER	ALIN	CIS	WATER	METON,	WATER	CHLOR,	WATER	WATER	MAZINE,	WATER	WATER	WATER
	FILTRD	WAT_FLT	WAT FLT	FLTRD	WATER,	FLTRD	WATER,	FLTRD	FLTRD	WATER,	FLTRD	FLTRD	FLTRD
D.1.000	0.7 μ	0.7 μ	0.7 μ	0.7 μ	DISS,	0.7 μ	DISS,	0.7 μ	0.7 μ	DISS,	0.7 μ	0.7 μ	0.7 μ
DATE	GF, REC	GF, REC (µg/L)	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, REC	REC (µg/L)	GF, REC (µg/L)	GF, REC	GF, REC
	(µg/L) (82669)	(μg/L) (82683)	(µg/L) (82687)	(µg/L) (82664)	(µg/L) (04037)	(µg/L) (82676)	(µg/L) (04024)	(µg/L) (82679)	(µg/L) (82685)	(μg/L) (04035)	(μg/L) (82670)	(µg/L) (82665)	(µg/L) (82675)
	(0200))	(02003)	(02007)	(02001)	(01037)	(02070)	(01021)	(02075)	(02003)	(01033)	(02070)	(02003)	(02073)
OCT													
04													
NOV													
06													
DEC 16	<.002	<.010	<.006	<.011	М	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02
16	<.002	<.010	<.006	<.011	M M	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02
18													
JAN													
23													
FEB													
20													
MAR	. 004	. 000	. 006	. 011	. 01	. 004	. 010	. 011	. 00	. 005	. 00	. 024	. 00
19 19	<.004 <.004	<.022 <.022	<.006 <.006	<.011 <.011	<.01 <.01	<.004 <.004	<.010 <.010	<.011 <.011	<.02 <.02	<.005 <.005	<.02 <.02	<.034 <.034	<.02 <.02
APR	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.∪∠
22	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
MAY													
30	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
JUN													
18	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.013	<.02	<.034	<.02
JUL	. 004	<.022	<.006	. 011	E.01	<.004	- 010	<.011	<.02	<.005	<.02	<.034	. 00
24 AUG	<.004	<.022	<.006	<.011	E.UI	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
20													
SEP													
10													

DATE	THIO- BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	0.7 μ GF, REC (μg/L)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
OCT			
04 NOV			
06			
DEC			
16	<.005	<.002	<.009
16	<.005	<.002	<.009
18			
JAN 23			
FEB			
20			
MAR			
19	<.005	<.002	<.009
19	<.005	<.002	<.009
APR			
22	<.005	<.002	<.009
MAY			
30	<.005	<.002	<.009
JUN			
18	<.005	<.002	<.009
JUL			
24	<.005	<.002	<.009
AUG			
20			
SEP			
10			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### 07052500 JAMES RIVER AT GALENA, MO

LOCATION.--Lat 36°48'19", long 93°27'41", in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.6, T.24 N., R.23 W., Stone County, Hydrologic Unit 11010002, on downstream side of right pier of first arch span from left end of bridge on old State Highways 13 and 248 in Galena, 0.7 mi upstream from Railey Creek, and 42.3 mi above mouth.

DRAINAGE AREA.--987 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only, October 1921, published in WSP 1311.

REVISED RECORDS. -- WSP 977: 1935(M), 1941(M).

GAGE.--Water-stage recorder. Datum of gage is 921.37 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 11, 1927, nonrecording gage at site 500 ft downstream at datum 1.48 ft higher; Dec. 11, 1927, to July 22, 1939, nonrecording gage, and July 23, 1939, to Sept. 30, 1953, water-stage recorder at present site and at datum 2.00 ft higher.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

Table   Tabl			DISCHA	KGE, CUBI	C LEEI PE		MATER TE MEAN VA		R 2001 10	PERIFMEE	R 2002		
2 120 196 625 548 6320 818 1300 1300 1370 364 221 150 3 119 310 608 531 3810 2440 1170 1140 1240 369 210 137 4 117 299 530 501 2830 2440 1050 1010 1130 348 200 139 5 134 250 458 446 2220 2010 954 895 1120 336 188 142 6 e310 236 401 431 1960 1790 872 974 1140 307 178 144 7 e290 224 357 411 1720 1720 844 892 1060 290 191 133 8 e190 216 320 393 1530 e1570 1450 13700 959 272 183 126 10 e170 204 287 376 1370 e1430 3160 25500 875 222 168 125 10 e177 194 260 365 1220 e1450 2380 11900 809 254 165 113 11 664 187 243 349 1100 e1380 2880 6420 751 388 181 117 12 774 176 269 333 1000 e1220 1800 4760 718 465 163 116 13 479 171 424 316 914 e1100 1750 5200 835 416 153 116 13 479 171 424 316 914 e1100 1750 5200 835 416 153 116 14 386 172 531 308 837 977 926 1790 4190 735 563 402 116 16 313 165 2300 283 718 842 1560 3420 667 409 362 117 17 303 160 11000 278 664 810 1390 6720 603 362 291 119 18 266 161 9990 272 618 738 1120 1710 550 530 325 395 395 133 20 277 222 3300 263 736 8180 1190 5070 5070 538 335 389 124 19 249 199 5080 272 618 738 1270 17100 558 335 389 133 20 277 222 3300 263 736 8180 1190 7070 5070 538 335 389 133 21 214 261 2510 256 709 4260 2910 3910 469 696 275 168 22 208 235 2070 253 675 2830 2550 3200 443 465 238 119 24 248 235 2070 253 675 2830 2550 3200 478 312 350 319 313 25 21 214 261 2510 256 709 4260 2910 3910 469 696 275 168 24 250 191 1130 514 589 3300 1500 1500 277 244 180 190 779 441 100 270 550 500 500 500 500 500 500 500 500 5	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3 119 310 608 531 3810 2240 1170 1140 1240 369 210 137 4 117 299 530 501 2830 2240 1050 1050 1010 1130 368 200 139 5 134 250 458 446 2280 2010 954 895 1120 336 280 188 142 7 e290 224 357 411 1720 1720 844 892 1060 290 191 133 8 e190 216 320 393 1530 e1570 1450 13700 959 272 183 126 9 e170 204 287 376 1370 e1430 3160 29500 875 262 168 125 10 e175 194 260 365 1230 e1450 2580 1190 809 254 165 119 11 664 187 243 349 1100 e1280 e1450 2580 1190 809 254 165 119 11 671 194 260 365 1230 e1450 2580 1190 809 254 165 119 11 671 194 260 365 1230 e1450 2580 1190 809 254 165 119 11 671 194 260 365 1230 e1450 2580 1190 809 254 165 119 11 671 194 260 365 1230 e1450 2580 1190 809 254 165 119 11 671 194 260 365 1230 e1450 2580 1190 809 254 165 119 11 671 194 260 365 1230 e1450 2580 1190 809 254 165 119 11 671 194 260 365 1230 878 974 8180 2580 828 8181 111 11 12 714 176 269 333 1000 e1220 1800 4760 731 338 181 111 13 479 171 424 316 914 e1100 1750 5200 835 416 159 113 14 386 172 531 308 837 974 1880 5280 828 818 271 112 15 347 169 554 299 777 926 1790 4190 735 563 402 116 16 313 165 2300 228 718 842 1550 3420 657 409 362 117 17 303 160 11000 278 664 810 1390 6720 603 363 291 119 18 266 161 9990 272 618 788 1270 1710 555 335 388 124 19 249 189 5060 271 618 1140 1150 7510 538 325 396 133 20 227 222 3300 263 736 4180 1090 5700 501 538 325 396 133 21 214 224 261 2510 256 679 4260 2910 3910 499 496 275 188 22 208 235 2070 253 675 2230 2550 3200 443 430 394 353 383 122 23 204 215 1760 256 688 2260 1890 2710 416 387 211 128 24 333 205 1510 356 631 1950 1600 2440 405 394 353 383 122 25 309 193 1310 503 615 2200 1560 2340 394 353 383 122 26 250 191 130 515 556 631 1950 1750 470 470 266 277 116 18 18 18 18 19 117 160 247 256 1770 1150 2150 409 243 198 108 18 18 19 17 160 247 180 140 140 150 150 150 409 243 198 108 18 18 19 19 100 2470 1400 4260 3160 2950 1540 696 402 168 18 18 18 19 19 100 2470 1400 4260 3160 2950 140 405 390 390 389 417 18 18 18 18 19 1100 2470 1400 4260 3160 2950 140 405 390 390 389 417 18 18 18 18 19 1100 2470 1400		126	179			11400	508	1420	1470	1540			164
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S													
6 e310 236 401 431 1960 1790 872 974 1140 307 178 144 7 e230 224 357 411 1720 1720 844 1882 1060 299 191 131 133 160 1100 1750 1720 844 1882 1060 299 191 131 133 125 10 e1750 1720 844 1882 1060 299 272 188 125 10 e175 194 260 365 1230 e1450 2580 11900 809 272 188 125 10 e175 194 260 365 1230 e1450 2580 11900 809 274 165 119 11 664 187 243 349 1100 e1320 1880 4760 738 465 163 116 119 112 714 176 269 333 1000 e1220 1880 4760 738 465 163 116 113 479 171 424 316 914 e1100 1755 5260 835 416 152 113 143 479 171 424 316 914 e1100 1755 5260 835 416 152 113 153 479 171 424 316 914 e1100 1755 5260 835 416 152 113 15 347 189 654 299 777 926 1790 4190 679 362 112 112 15 347 189 654 299 777 926 1790 4190 679 362 117 177 303 160 11000 278 664 810 1390 6720 603 363 291 119 18 266 161 9990 272 618 788 1140 1150 5580 828 328 329 119 19 249 189 5060 271 618 718 1140 1150 7510 538 325 388 124 120 220 222 222 3300 263 736 4180 1190 5700 558 325 388 124 122 220 227 222 3300 253 675 283 2500 2910 3910 469 696 275 168 222 208 235 2070 253 675 2830 2550 3200 443 465 238 151 132 22 204 225 1760 256 648 2250 1890 2710 416 387 221 128 22 204 235 100 551 553 615 2200 1850 150 538 335 383 122 22 204 235 2070 253 675 2830 2550 3200 443 465 238 151 22 200 221 180 247 1130 551 545 2640 1890 1790 479 286 277 163 818 117 170 170 555 305 388 124 22 200 235 2070 253 675 2830 2550 3200 443 465 238 151 22 200 241 808 499 1980 1450 2000 478 312 350 199 277 123 250 199 193 1510 553 651 2200 1560 2340 394 353 383 122 200 221 180 2470 1130 551 545 2640 1390 1790 497 286 277 116 81 117 160 243 253 521 2240 1350 1790 497 286 277 116 81 117 117 160 256 648 2250 1890 1790 445 251 250 119 1130 511 4599 3300 1450 2000 478 312 350 119 27 248 818 140 110 551 545 2640 1390 1790 497 286 277 116 81 117 117 110 555 320 1510 356 651 2200 1360 2360 434 455 236 119 119 110 110 551 545 2640 1390 1790 497 286 277 116 81 117 117 117 117 117 117 117 117 117													
Record   190	5	134	250	458	446	2280	2010	954	895	1120	336	188	142
8 e190 216 320 393 1530 e1370 e1430 3160 29500 875 262 168 125 10 e1770 204 287 376 1370 e1430 3160 29500 875 262 168 125 10 e178 194 260 365 1230 e1450 2580 11900 809 224 165 119 11 666 1875 194 260 365 1230 e1450 2580 11900 809 224 165 119 11 666 1877 11 664 1877 243 349 1100 e1280 2080 6420 751 388 181 117 11 644 3479 171 424 315 914 e1100 1750 5200 835 445 159 113 14 386 172 531 308 837 974 1880 5280 828 518 272 1112 14 346 136 914 e1100 1750 5200 835 445 159 113 14 386 172 531 308 837 974 1880 5280 828 518 272 1112 15 347 169 654 299 777 926 1790 4190 735 563 402 116 16 313 165 2300 273 664 810 1390 6720 603 363 291 117 17 303 160 11000 278 664 810 1390 6720 603 363 291 119 18 266 161 9990 272 618 788 1270 17100 563 315 388 124 119 249 189 5060 271 618 1740 1150 7510 538 325 396 133 20 227 222 3300 263 736 4480 1090 5070 501 539 319 133 133 20 227 222 23 300 253 6736 4480 1090 5070 501 539 319 133 22 220 8 235 2070 253 6675 2830 2550 3200 440 405 390 2977 123 25 309 193 1310 503 615 2200 1560 2340 394 353 383 122 25 200 253 675 2830 2550 3200 440 345 529 390 2977 123 25 309 193 1310 503 615 2200 1560 2340 394 353 383 122 25 360 133 130 503 615 2200 1560 2340 394 353 383 122 26 270 218 182 1910 551 595 330 513 383 122 27 218 182 1910 551 595 330 513 503 615 2200 1560 2340 394 353 383 122 27 28 1977 241 808 499 1980 1250 499 243 199 108 31 183 645 2470 1580 1760 244 181   MEAN 265 212 1694 461 1692 1818 1588 5013 745 365 250 128 MAX 714 349 11000 2470 11400 4260 3160 2250 MAY 9 5700 503 899 417 MAX 714 349 11000 2470 11400 4260 3160 2250 MAY 9 5700 503 899 193 193 1937 1966 1945 1954 1954 1954 1954 1954 1954 1955 1954 1954													
9 e170 204 287 376 1370 e1430 3160 29500 875 262 168 125 1010 1075 194 260 365 1230 e1450 2580 11900 809 254 165 119 11 664 187 243 349 1100 e1220 1700 4760 718 338 181 117 12 14 176 649 313 1000 e1220 1700 4760 718 338 181 117 12 14 176 649 313 1000 e1220 1700 4760 718 338 181 117 12 14 176 479 171 424 313 1000 e1220 1700 4760 718 388 185 125 113 14 386 172 531 308 837 180 180 1800 4760 718 380 465 163 113 116 180 180 180 180 180 180 180 180 180 180													
10													
12	10												
13   479   171   424   316   914   61100   1750   5200   835   416   159   113     14   386   172   531   308   837   974   1880   5280   828   518   272   112     15   347   169   654   299   777   926   1790   4190   735   563   402   116     16   313   165   2300   283   718   842   1560   3420   657   409   362   117     17   303   160   11000   278   664   810   1390   6720   603   363   291   119     18   266   161   9990   272   618   788   1270   17100   565   325   388   124     19   249   189   5660   271   618   1140   1150   7510   538   325   386   133     20   227   222   3300   263   736   4180   1090   5070   501   539   319   133     21   214   261   2510   255   709   4260   2910   3910   469   696   275   168     22   208   235   2070   253   675   2830   2550   3200   443   465   238   151     23   204   215   1760   256   648   2260   1890   2710   416   387   211   128     24   333   205   1510   356   631   1950   1600   2440   405   390   297   123     25   309   193   1310   503   615   2200   1560   2340   405   390   297   123     26   250   191   1130   514   589   3300   1450   2000   478   312   350   119     27   218   182   1010   551   545   2640   1390   1790   497   286   277   116     28   200   214   902   532   521   2240   1350   1670   427   263   253   132     29   197   241   808   499     1980   1230   2950   1540   696   402   168     MIN   117   160   243   253   521   2508   844   892   394   343   198   108     31   183     645   2470   11400   4260   3160   29500   1540   696   402   168     MIN   117   160   243   253   531   508   837   837   837   837   837   837   837   837   838   124    STATISTICS OF MONTHLY MEAN BATA FOR WATER YEARS   1922 - 2002, BY WATER YEAR (WY)  HEAN   456   61   958   804   1136   1525   1766   1642   1160   590   399   417    HEANN   244   407   5435   3443   3485   5372   8376   9549   6383   4010   5199   548    KINNALA, SEVEN-DAY KINIMUM   119   Sep 1   1187   1187   1187   1198   11954   11954   11954   11954   11954	11	664	187	243	349	1100	e1380	2080	6420	751	338	181	117
14   386   172   531   308   837   974   1880   5280   828   518   272   112   15   347   169   654   299   777   926   1790   4190   375   563   402   116   16   313   165   2300   283   718   842   1560   3420   657   409   362   117   17   303   160   11000   278   664   810   1390   6720   603   363   291   119   18   266   161   9990   272   618   788   1270   17100   565   335   388   124   19   249   189   5060   271   618   1140   1150   7510   538   325   396   133   320   227   222   3300   263   736   4180   1090   5070   501   539   319   313   3160   12510   256   709   4260   2910   3910   469   696   275   168   22   208   225   2070   283   675   2830   2550   3200   341   469   696   275   168   22   208   225   2070   283   675   2830   2550   3200   443   465   228   151   233   204   215   1760   256   648   2260   1890   2710   416   387   211   128   243   2333   205   1510   356   631   1950   1600   2440   405   399   297   123   255   3399   193   1310   503   615   2200   1560   2340   394   353   383   122   266   250   191   1130   514   589   3300   1450   2000   478   312   350   119   272   218   182   1010   551   545   2640   1390   1790   475   266   275   168   280   2919   2919   241   808   499     1980   1230   2970   445   251   226   110   30   188   349   717   526     1770   1150   2150   409   243   198   108   111   313   117   160   243   253   521   2240   1350   1670   427   263   253   112   29   197   241   808   499     1800   2470   1160   243   198   108   110   117   160   243   253   521   508   844   892   894   313   159   108   111   117   117   1180   245   2450   1350   1670   427   263   253   112   480	12	714	176	269	333	1000	e1220	1800	4760	718	465	163	116
15 347 169 654 299 777 926 1790 4190 735 563 402 116  16 313 165 2300 283 718 842 1560 3420 657 409 362 117  17 303 160 11000 278 664 810 1390 6720 603 363 291 119  18 266 161 9990 272 618 788 1270 17100 565 335 388 124  19 249 189 5060 271 618 1140 1150 7510 563 325 388 124  20 227 222 3300 263 736 4180 1090 5070 501 539 319 133  21 214 261 2510 256 709 4260 2910 3910 469 696 275 168  22 208 235 2070 253 675 2830 2550 3200 443 4655 238 151  23 204 215 1760 256 648 2260 1890 2710 416 387 211 128  24 3133 205 1510 356 631 1950 1600 2440 405 390 297 123  25 309 193 1310 503 615 2200 1560 2340 394 363 383 122  26 250 191 1130 503 615 2200 1560 2340 394 363 383 122  26 22 18 8 182 1010 551 545 2640 1390 1790 497 286 277 166  28 200 214 902 532 521 2240 1350 1670 427 263 253 251 122  29 197 241 808 499 1980 1230 2970 445 251 226 110  30 188 349 717 526 1770 1150 2150 409 2470 497 286 277 166  31 183 645 2470 1580 1760 244 181  MEAN 265 212 1694 461 1692 1818 1588 5013 745 365 220 128  MIN. 0.31 0.24 1.99 0.54 1.79 2.12 1.80 5.86 0.84 0.43 0.29 0.14  STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)  MEAN 485 861 958 894 1136 1525 1766 1642 1160 590 389 417  MAX 2494 4407 5435 3443 3485 5372 8376 548 638 4010 519 568 400 110 519 568 195 197 1943 1935 1951 1927 1993 MIN. 58.0 65.3 79.2 68.8 87.4 129 145 1956 1956 1956 1956 1956 1956 1956 195													
16													
17 303 160 11000 278 664 810 1390 6720 603 363 291 119 18 266 161 9990 272 618 788 1270 17100 565 335 388 124 19 249 189 5060 271 618 1140 1150 7510 538 325 396 133 20 227 222 3300 263 736 4180 1090 5070 501 539 319 133 21 214 261 2510 256 709 4260 2910 3910 469 696 275 168 22 208 235 2070 253 675 2830 2550 3200 443 465 238 151 23 204 215 1760 256 648 2260 1890 2710 416 887 211 128 24 333 205 1510 356 631 1950 1600 2440 405 390 297 123 25 309 193 1310 503 615 22200 1560 2340 394 353 383 122 26 250 191 1130 514 589 3300 1450 2000 478 312 350 119 27 218 182 1010 551 545 2640 1390 1700 497 286 277 116 29 197 241 808 52 251 2240 1350 1670 427 283 273 116 29 197 241 808 499 1900 1230 1500 409 243 198 108 31 183 349 717 526 1700 1150 1250 409 243 198 108 31 183 499 717 526 1580 1700 1150 2150 409 243 198 108 31 183 645 2470 1580 1760 244 181  MEAN 455 861 958 894 1136 1525 1766 1642 1160 590 389 417  MAX 714 349 11000 2470 11400 4260 3160 29500 1540 696 402 168 MIN 117 160 243 253 343 3435 521 508 844 892 394 243 159 108 MIN 117 160 243 253 343 3435 521 508 844 892 394 243 159 108 MIN 117 160 243 253 343 3435 521 508 844 892 394 243 159 108 MIN 117 180 245 394 1956 1956 1954 1954 1954 1936 1936 1936 1954 1954 1954 1955 1954 MIN 1942 1973 1983 1937 1966 1945 1927 1943 1935 1951 1927 1993 MIN 58.0 65.3 79.2 68.8 87.4 129 145 179 87.6 46.0 22.6 45.8 (WY) 1954 1954 1954 1954 1954 1954 1954 1954	15	347	169	654	299			1790	4190	735	563	402	116
18 266 161 9990 272 618 788 1270 17100 565 335 388 124 19 249 189 5060 271 618 1140 1150 7510 538 325 396 133 20 227 222 33300 263 736 4180 1090 5070 501 539 319 133 21 214 261 2510 256 709 4260 2910 3910 469 696 275 168 22 208 235 2070 253 675 2830 2550 3200 443 465 238 151 23 204 215 1760 256 648 2260 1890 2710 416 387 211 128 24 333 205 1510 356 631 1950 1600 2440 405 390 297 123 25 309 193 1310 503 615 2200 1560 2340 394 353 383 122 26 250 191 1130 503 615 2200 1560 2340 394 353 383 122 26 250 191 1100 551 545 2640 1390 1790 497 286 277 116 28 200 214 902 532 521 2240 1350 1670 427 263 253 112 29 197 241 808 499 1980 1230 2970 445 251 226 110 30 188 349 717 526 1770 1150 2150 409 243 198 108 31 183 645 2470 1580 1760 244 181  MEAN 265 212 1694 461 1692 1818 1588 5013 745 365 250 128 MAX 714 349 11000 2470 11400 4260 3160 29500 1540 696 402 168 MIN 117 160 243 253 521 220 188 448 92 394 243 159 108 IN. 0.31 0.24 1.98 0.54 1.79 2.12 1.80 5.86 0.84 0.43 0.29 0.14  STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)  MEAN 485 861 958 894 1136 1525 1766 1642 1160 590 389 417  MAX 2494 4407 5435 3443 3485 5572 8376 549 6383 4010 5159 5684 (WY) 1942 1973 1983 1937 1966 1945 1957 1943 1935 1951 1927 1933 1000 22.6 45.8 (WY) 1942 1973 1983 1937 1966 1945 1957 1943 1935 1951 1927 1933 1000 22.6 45.8 (WY) 1954 1954 1956 1956 1954 1954 1954 1954 1955 1957 1000 290 1000 290 1000 290 10000 290 1000000 290 10000000000						718	842						
19							810						
20													
22   208   235   2070   253   675   2830   2550   3200   443   465   238   151   238   24   215   1760   256   648   2260   1890   2710   416   387   211   128   24   333   205   1510   356   631   1950   1600   2440   405   390   297   123   25   309   193   1310   503   615   2200   1560   2340   394   353   383   122   26   250   191   1130   514   589   3300   1450   2000   478   312   350   119   27   218   182   1010   551   545   2640   1390   1790   497   286   277   116   28   200   214   902   532   521   2240   1350   1670   427   263   253   112   29   197   241   808   499     1980   1230   2970   445   251   226   110   30   188   349   717   526     1770   1150   2150   409   243   198   108   31   183     645   2470     1580     1760     244   181     MEAN   265   212   1694   461   1692   1818   1588   5013   745   365   250   128   MAX   714   349   11000   2470   11400   4260   3160   29500   1540   696   402   168   MIN   117   160   243   253   521   508   844   892   394   243   159   108   IN   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   0.21   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   0.21   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   0.24   0.24   0.24   0.24   0.24   0.24   0.2													
22   208   235   2070   253   675   2830   2550   3200   443   465   238   151   238   24   215   1760   256   648   2260   1890   2710   416   387   211   128   24   333   205   1510   356   631   1950   1600   2440   405   390   297   123   25   309   193   1310   503   615   2200   1560   2340   394   353   383   122   26   250   191   1130   514   589   3300   1450   2000   478   312   350   119   27   218   182   1010   551   545   2640   1390   1790   497   286   277   116   28   200   214   902   532   521   2240   1350   1670   427   263   253   112   29   197   241   808   499     1980   1230   2970   445   251   226   110   30   188   349   717   526     1770   1150   2150   409   243   198   108   31   183     645   2470     1580     1760     244   181     MEAN   265   212   1694   461   1692   1818   1588   5013   745   365   250   128   MAX   714   349   11000   2470   11400   4260   3160   29500   1540   696   402   168   MIN   117   160   243   253   521   508   844   892   394   243   159   108   IN   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   0.21   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   1.98   0.54   1.79   0.21   1.80   5.86   0.84   0.43   0.29   0.14   0.31   0.24   0.24   0.24   0.24   0.24   0.24   0.24   0.2	21	214	261	2510	256	700	4260	2010	2010	160	606	275	160
23													
24   333   205   1510   356   631   1950   1600   2440   405   390   297   123   225   309   193   1310   503   615   2200   1560   2340   394   353   383   122   226   250   191   1130   514   589   3300   1450   2000   478   312   350   119   27   218   182   1010   551   545   2640   1390   1790   497   286   277   116   28   200   214   902   532   521   2240   1350   1670   427   263   253   252   2240   1350   1670   427   263   253   252   110   200   2970   445   251   226   110   30   188   349   717   526     1770   1150   2150   409   243   198   108   31   183     645   2470     1580     1760     244   181     MEAN   265   212   1694   461   1692   1818   1588   5013   745   365   250   128   MAX   714   349   11000   2470   11400   4260   3160   29500   1540   696   402   168   MIN   117   160   243   253   521   508   844   892   394   243   159   108   IN   0.31   0.24   1.98   0.54   1.79   2.12   1.80   5.86   0.84   0.43   0.29   0.14   STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)   MEAN   485   861   958   894   1136   1525   1766   1642   1160   590   389   417   MAX   2494   4407   5435   3443   3485   5372   8376   9549   6383   4010   5159   5684   (WY)   1942   1973   1983   1937   1966   1945   1957   1943   1935   1951   1927   1993   MIN   58.0   65.3   79.2   68.8   87.4   129   145   179   87.6   46.0   22.6   45.8   (WY)   1954   1955   1956   1956   1954   1954   1954   1956   1954   1954   1954   1954   1954   1954   1954   1955   128													
25   309   193   1310   503   615   2200   1560   2340   394   353   383   122													
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30 188 349 717 526 1770 1150 2150 409 243 198 108 31 183 645 2470 1580 1760 244 181  MEAN 265 212 1694 461 1692 1818 1588 5013 745 365 250 128 MAX 714 349 11000 2470 11400 4260 3160 29500 1540 696 402 168 MIN 117 160 243 253 521 508 844 892 394 243 159 108 IN. 0.31 0.24 1.98 0.54 1.79 2.12 1.80 5.86 0.84 0.43 0.29 0.14  STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)  MEAN 485 861 958 894 1136 1525 1766 1642 1160 590 389 417 MAX 2494 4407 5435 3443 3485 55372 8376 9549 6383 4010 5159 5684 (WY) 1942 1973 1983 1937 1966 1945 1927 1943 1935 1951 1927 1993 MIN 58.0 65.3 79.2 68.8 87.4 129 145 179 87.6 46.0 22.6 45.8 (WY) 1954 1954 1956 1956 1956 1954 1954 1954 1936 1936 1954 1954 1953  SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1922 - 2002  ANNUAL MEAN 701 1187 983  HIGHEST ANNUAL MEAN 112 Sep 5 108 Sep 30 11 Aug 22 1954 ANNUAL SEVEN-DAY MINIMUM 119 Sep 1 116 Sep 10 12 Aug 18 1954  HIGHEST DAILLY MEAN 21600 Feb 25 29500 May 9 73200 Sep 25 1993  MAXIMUM PEAK FLOW 37300 May 9 73200 Sep 25 1993  MAXIMUM PEAK STAGE 21.86 May 9 33.46 Sep 25 1993  MAXIMUM PEAK STAGE 103 Sep 30 10 Sep 20 1954  ANNUAL RUNOFF (INCHES) 9.65 16.33 1936 1936 19.54  10 PERCENT EXCEEDS 1210 2450 2450  ANNUAL RUNOFF (INCHES) 9.65  DEPERCENT EXCEEDS 1210 2450  469 4429	26	250	191	1130	514	589	3300	1450	2000	478	312	350	119
30 188 349 717 526 1770 1150 2150 409 243 198 108 31 183 645 2470 1580 1760 244 181  MEAN 265 212 1694 461 1692 1818 1588 5013 745 365 250 128 MAX 714 349 11000 2470 11400 4260 3160 29500 1540 696 402 168 MIN 117 160 243 253 521 508 844 892 394 243 159 108 IN. 0.31 0.24 1.98 0.54 1.79 2.12 1.80 5.86 0.84 0.43 0.29 0.14  STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)  MEAN 485 861 958 894 1136 1525 1766 1642 1160 590 389 417 MAX 2494 4407 5435 3443 3485 55372 8376 9549 6383 4010 5159 5684 (WY) 1942 1973 1983 1937 1966 1945 1927 1943 1935 1951 1927 1993 MIN 58.0 65.3 79.2 68.8 87.4 129 145 179 87.6 46.0 22.6 45.8 (WY) 1954 1954 1956 1956 1956 1954 1954 1954 1936 1936 1954 1954 1953  SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1922 - 2002  ANNUAL MEAN 701 1187 983  HIGHEST ANNUAL MEAN 112 Sep 5 108 Sep 30 11 Aug 22 1954 ANNUAL SEVEN-DAY MINIMUM 119 Sep 1 116 Sep 10 12 Aug 18 1954  HIGHEST DAILLY MEAN 21600 Feb 25 29500 May 9 73200 Sep 25 1993  MAXIMUM PEAK FLOW 37300 May 9 73200 Sep 25 1993  MAXIMUM PEAK STAGE 21.86 May 9 33.46 Sep 25 1993  MAXIMUM PEAK STAGE 103 Sep 30 10 Sep 20 1954  ANNUAL RUNOFF (INCHES) 9.65 16.33 1936 1936 19.54  10 PERCENT EXCEEDS 1210 2450 2450  ANNUAL RUNOFF (INCHES) 9.65  DEPERCENT EXCEEDS 1210 2450  469 4429			182	1010									
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183			241	808									
MEAN         265         212         1694         461         1692         1818         1588         5013         745         365         250         128           MAX         714         349         11000         2470         11400         4260         3160         29500         1540         696         402         168           MIN         117         160         243         253         521         508         844         892         394         243         159         108           IN.         0.31         0.24         1.98         0.54         1.79         2.12         1.80         5.86         0.84         0.43         0.29         0.14           STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)           MEAN         485         861         958         894         1136         1525         1766         1642         1160         590         389         417           MAX         2494         4407         5435         3443         3485         5372         8376         9549         6383         4010         5159         5684           (WY)         1954         1956         1956         <													
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MIN 117 160 243 253 521 508 844 892 394 243 159 108 IN. 0.31 0.24 1.98 0.54 1.79 2.12 1.80 5.86 0.84 0.43 0.29 0.14 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)  MEAN 485 861 958 894 1136 1525 1766 1642 1160 590 389 417 MAX 2494 4407 5435 3443 3485 5372 8376 9549 6383 4010 5159 5684 (WY) 1942 1973 1983 1937 1966 1945 1927 1943 1935 1951 1927 1993 MIN 58.0 65.3 79.2 68.8 87.4 129 145 179 87.6 46.0 22.6 45.8 (WY) 1954 1954 1956 1956 1954 1954 1954 1954 1936 1936 1954 1954 1953 SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1922 - 2002 ANNUAL MEAN 701 1187 983 HIGHEST ANNUAL MEAN 1956 1954 1954 1954 1954 1954 1954 1954 1954													
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MAX         2494         4407         5435         3443         3485         5372         8376         9549         6383         4010         5159         5684           (WY)         1942         1973         1983         1937         1966         1945         1927         1943         1935         1951         1927         1993           MIN         58.0         65.3         79.2         68.8         87.4         129         145         179         87.6         46.0         22.6         45.8           (WY)         1954         1954         1956         1954         1954         1954         1936         1936         1954         1954         1953           SUMMARY STATISTICS         FOR 2001 CALENDAR YEAR         FOR 2002 WATER YEAR         WATER YEARS 1922 - 2002           ANNUAL MEAN         1187         983           HIGHEST ANNUAL MEAN         1187         983           HIGHEST DAILY MEAN         21600         Feb 25         29500         May 9         57000         Sep 25         1993           ALOWEST DAILY MEAN         112         Sep 5         10	STATIST	rics of MC	NTHLY ME	AN DATA F	OR WATER	YEARS 1922	2 - 2002,	BY WATER	YEAR (WY)				
MAX         2494         4407         5435         3443         3485         5372         8376         9549         6383         4010         5159         5684           (WY)         1942         1973         1983         1937         1966         1945         1927         1943         1935         1951         1927         1993           MIN         58.0         65.3         79.2         68.8         87.4         129         145         179         87.6         46.0         22.6         45.8           (WY)         1954         1954         1956         1954         1954         1954         1936         1936         1954         1954         1953           SUMMARY STATISTICS         FOR 2001 CALENDAR YEAR         FOR 2002 WATER YEAR         WATER YEARS 1922 - 2002           ANNUAL MEAN         1187         983           HIGHEST ANNUAL MEAN         1187         983           HIGHEST DAILY MEAN         21600         Feb 25         29500         May 9         57000         Sep 25         1993           ALOWEST DAILY MEAN         112         Sep 5         10	MEAN	485	861	958	894	1136	1525	1766	1642	1160	590	389	417
MY													
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SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1922 - 2002  ANNUAL MEAN 701 1187 983 HIGHEST ANNUAL MEAN 119 2499 1927 LOWEST ANNUAL MEAN 119 555 29500 May 9 57000 Sep 25 1993 LOWEST DAILY MEAN 1112 Sep 5 108 Sep 30 11 Aug 22 1954 ANNUAL SEVEN-DAY MINIMUM 119 Sep 1 116 Sep 10 12 Aug 18 1954 MAXIMUM PEAK FLOW 37300 May 9 73200 Sep 25 1993 MAXIMUM PEAK STAGE 21.86 May 9 33.46 Sep 25 1993 INSTANTANEOUS LOW FLOW 103 Sep 30 10 Sep 20 1954 ANNUAL RUNOFF (INCHES) 9.65 16.33 13.54 10 PERCENT EXCEEDS 1210 2450 2140 50 PERCENT EXCEEDS 319 469 429	MIN	58.0	65.3	79.2	68.8	87.4	129	145	179	87.6	46.0	22.6	45.8
ANNUAL MEAN 701 1187 2499 1927 LOWEST ANNUAL MEAN 21600 Feb 25 29500 May 9 57000 Sep 25 1993 LOWEST DAILY MEAN 1112 Sep 5 108 Sep 30 111 Aug 22 1954 ANNUAL SEVEN-DAY MINIMUM 119 Sep 1 116 Sep 10 12 Aug 18 1954 MAXIMUM PEAK FLOW 37300 May 9 73200 Sep 25 1993 INSTANTANEOUS LOW FLOW 103 Sep 30 10 Sep 25 1993 INSTANTANEOUS LOW FLOW 103 Sep 30 10 Sep 25 1993 INSTANTANEOUS LOW FLOW 103 Sep 30 10 Sep 25 1995 ANNUAL RUNOFF (INCHES) 9.65 16.33 13.54 10 PERCENT EXCEEDS 11210 2450 2450 2469	(WY)	1954	1954	1956	1956	1954	1954	1954	1936	1936	1954	1954	1953
HIGHEST ANNUAL MEAN   1972   1927   1954   1954   1954   1954   19554   19554   19554   19555   1955	SUMMARY	Y STATISTI	CS	FOR	2001 CALE	NDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	ARS 1922	- 2002
LOWEST ANNUAL MEAN HIGHEST DAILY MEAN 21600 Feb 25 29500 May 9 57000 Sep 25 1993 LOWEST DAILY MEAN 112 Sep 5 108 Sep 30 11 Aug 22 1954 ANNUAL SEVEN-DAY MINIMUM 119 Sep 1 116 Sep 10 12 Aug 18 1954 MAXIMUM PEAK FLOW 37300 May 9 73200 Sep 25 1993 MAXIMUM PEAK STAGE 21.86 May 9 33.46 Sep 25 1993 INSTANTANEOUS LOW FLOW 103 Sep 30 10 Sep 25 1993 ANNUAL RUNOFF (INCHES) 9.65 16.33 13.54 10 PERCENT EXCEEDS 1210 2450 2140 50 PERCENT EXCEEDS 319 469 429	ANNUAL	MEAN			701			1187			983		
HIGHEST DAILY MEAN 21600 Feb 25 29500 May 9 57000 Sep 25 1993 LOWEST DAILY MEAN 112 Sep 5 108 Sep 30 11 Aug 22 1954 ANNUAL SEVEN-DAY MINIMUM 119 Sep 1 116 Sep 10 12 Aug 18 1954 MAXIMUM PEAK FLOW 37300 May 9 73200 Sep 25 1993 MAXIMUM PEAK STAGE 21.86 May 9 33.46 Sep 25 1993 INSTANTANEOUS LOW FLOW 103 Sep 30 10 Sep 20 1954 ANNUAL RUNOFF (INCHES) 9.65 1210 Sep 20 1954 16.33 13.54 10 PERCENT EXCEEDS 1210 2450 2140 429													
LOWEST DAILY MEAN 112 Sep 5 108 Sep 30 11 Aug 22 1954 ANNUAL SEVEN-DAY MINIMUM 119 Sep 1 116 Sep 10 12 Aug 18 1954 MAXIMUM PEAK FLOW 37300 May 9 73200 Sep 25 1993 MAXIMUM PEAK STAGE 21.86 May 9 33.46 Sep 25 1993 INSTANTANEOUS LOW FLOW 103 Sep 30 10 Sep 20 1954 ANNUAL RUNOFF (INCHES) 9.65 16.33 13.54 10 PERCENT EXCEEDS 1210 2450 2140 50 PERCENT EXCEEDS 319 469 429													
ANNUAL SEVEN-DAY MINIMUM 119 Sep 1 116 Sep 10 12 Aug 18 1954 MAXIMUM PEAR FLOW 37300 May 9 73200 Sep 25 1993 MAXIMUM PEAR STAGE 21.86 May 9 33.46 Sep 25 1993 INSTANTANEOUS LOW FLOW 103 Sep 30 10 Sep 20 1954 ANNUAL RUNOFF (INCHES) 9.65 16.33 13.54 10 PERCENT EXCEEDS 1210 2450 2140 50 PERCENT EXCEEDS 319 469 429													
MAXIMUM PEAK FLOW      37300     May 9     73200     Sep 25 1993       MAXIMUM PEAK STAGE      21.86     May 9     33.46     Sep 25 1993       INSTANTANEOUS LOW FLOW      103     Sep 30     10     Sep 20 1954       ANNUAL RUNOFF (INCHES)     9.65     16.33     13.54       10 PERCENT EXCEEDS     1210     2450     2140       50 PERCENT EXCEEDS     319     469     429													
ANNUAL RUNOFF (INCHES) 9.65 16.33 13.54 10 PERCENT EXCEEDS 1210 2450 2140 50 PERCENT EXCEEDS 319 469 429						seb I			o∈b T∩		72200		
ANNUAL RUNOFF (INCHES) 9.65 16.33 13.54 10 PERCENT EXCEEDS 1210 2450 2140 50 PERCENT EXCEEDS 319 469 429									May 9		73200 33 46		
ANNUAL RUNOFF (INCHES) 9.65 16.33 13.54 10 PERCENT EXCEEDS 1210 2450 2140 50 PERCENT EXCEEDS 319 469 429									Sep 30		10		
10 PERCENT EXCEEDS     1210     2450     2140       50 PERCENT EXCEEDS     319     469     429													
	10 PERC	CENT EXCEE	DS								2140		
90 PERCENT EXCEEDS 168 162 120													
	90 PERC	CENT EXCEE	DS		168			162			120		

e Estimated

# 07052500 JAMES RIVER AT GALENA, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1999 to current year.

DATE	TIME	SAMPLH TYPE	Ξ	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 03	1405	ENVIRONME	ENTAL	120	17.9	205	8.8	556	20.0				
NOV 05	1600	ENVIRONME	ENTAL	240	16.6	179	8.6	500	17.0	190	66.4	6.72	3.64
DEC 18	1145	ENVIRONME	ENTAL	9740	10.4	97	7.1	267	10.6				
JAN 23 FEB	0930	ENVIRONME	ENTAL	251	12.0	102	8.5	473	6.8	200	66.5	7.22	3.26
19 19	1210 1211	ENVIRONME REPLICATE		600	9.9	93	7.3	410	10.4				
MAR 19	0950	ENVIRONME	ENTAL	906	9.2	88	7.9	376	11.8				
APR 23 MAY	1140	ENVIRONME	ENTAL	1940	13.6	148	7.6	306	17.8				
29 29	1530 1531	ENVIRONME BLANK	ENTAL	2670 	12.5	139	7.8	330	18.5	150 	53.0 .05	4.43 E.007	.30 <.10
JUN 17 24	1430 1125	ENVIRONME ENVIRONME		598 398	11.1	138 105	8.2 8.0	401 431	24.3 25.4				
JUL 24	1145	ENVIRONME		387	8.6	111	7.7	424	27.0	180	63.1	6.00	3.39
AUG 19	1135	ENVIRONME		393	8.1	105	8.1	248	25.8				
SEP 09	1545	ENVIRONME		126	10.6	142	8.3	528	28.1				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLITD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 03 NOV	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 03 NOV 05 DEC 18 JAN 23	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  153 165	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.79
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  153 165 109	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 153 164 108	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  167 175	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  9 12 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 70	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04	GEN,AM- MONIA + ORGANIC TOTTAL (mg/L as N) (00625)  .21 .21 .72	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) 1.79 1.83 2.04
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  153 165 109 165 169	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 153 164 108 165 170	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 167 175 132 197 207	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  9  12  0  2  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  38.3  31.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  22.5  16.4	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .04 <.04 <.04	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .21 .21 .72 .15	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.79 1.83 2.04 2.64 2.36
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  153 165 109 165 169	WATER UNFLITD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 153 164 108 165 170	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 167 175 132 197 207	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  9 12 0 2 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  38.3  31.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  22.5  16.4	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 .04 <.04 <.04 <.04	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .21 .21 .72 .15 .12 .14	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  1.79 1.83 2.04 2.64 2.36 2.36
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY 29	DIS- SOLVED (mg/L as Na) (00930)  29.8  21.2	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  153 165 109 165 169 158	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 153 164 108 165 170 	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 167 175 132 197 207 	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  9 12 0 2 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  38.3  31.5	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  22.5  16.4	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  290 270	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .21 .21 .72 .15 .12 .14	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) 1.79 1.83 2.04 2.64 2.36 2.36 1.90
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 29 23 MAY 29 29 JUN 17 24	DIS- SOLVED (mg/L as Na) (00930)  29.8 21.2 4.06	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  153 165 109 165 169 158 129 130	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 153 164 108 165 170  158 128	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 167 175 132 197 207  192 156 159	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  9 12 0 2 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  38.3  31.5	RIDE, DIS- SOLVED (mg/L as F) (00950)  .1  .1    E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  22.5  16.4   	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <16 <10 <10 <16 <10 <16 <16 <16 <16 <16 <16 <16 <16 <16 <16	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  290 270 190	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .21 .21 .72 .15 .12 .14 .19 .28 .20	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  1.79 1.83 2.04 2.64 2.36 2.36 1.90 1.35
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 APR 23 MAY 29 JUIN 17 24 JUL 24	DIS- SOLVED (mg/L as Na) (00930)  29.8 21.2 4.06 .35	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  153 165 109 165 169 158 129 130 157	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 153 164 108 165 170  158 128	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  167 175 132 197 207 192 156 159 193	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  9 12 0 2 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  38.3  31.5   14.3 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)  .1  .1   E.1 <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  22.5  16.4   6.1 .1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  290 270 190 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .21 .21 .72 .15 .12 .14 .19 .28 .20 <.10 .17	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  1.79  1.83  2.04  2.64  2.36  2.36  1.90  1.35  1.77  1.72
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 29 APR 29 JUN 17 24 JUL	DIS- SOLVED (mg/L as Na) (00930)  29.8 21.2 4.06 .35	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  153 165 109 165 169 158 129 130 157 154	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 153 164 108 165 170  158 128 131  158 154	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  167 175 132 197 207 192 156 159 193 188	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  9 12 0 2 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  38.3 31.5 14.3 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  22.5  16.4   6.1 .1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  290 270 190 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .21 .21 .72 .15 .12 .14 .19 .28 .20 <.10 .17	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.79 1.83 2.04 2.64 2.36 2.36 1.90 1.35 1.07 <.05 1.72

# 07052500 JAMES RIVER AT GALENA, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 03	.009	.07	.05	.06	<1	K2	K1						
NOV 05	.014	E.04	.02	.09	K1	К2	К29	12	16	2.1	.06	<.1	<6
DEC 18	.035	.09	.05	.17	к9300	K2500	K5300						
JAN 23	<.008	<.06	<.02	E.03	K8	K13	K7	9	22	.8	.04	<.1	<6
FEB 19	.006	E.04	.03	E.04	25	<1	K18						
19 MAR	E.005	E.04	.03	E.04									
19 APR	E.005	E.03	.02	E.06	K10	46	K27						
23 MAY	E.005	E.05	.04	.07	K88	K280	K29						
29 29	<.008 <.008	E.04 <.06	.02 <.02	<.06 <.06	K1000	K3440	K2470 	88 <1	179 <2	.3 <.2	<.04 <.04	<.1 <.1	<6 <6
JUN 17	E.005	E.05	.04	E.06	К8	к8	23						
24 JUL													
24 AUG	E.007	.09	.08	.09	160	K25	127	1	42	<.2	E.02	<.1	<6
19 SEP	.011	.10	.06	.10	K2	28	21						
09	.010	.10	.09	.10	<1	K10	24						
Date	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	1,4-DI- CHLORO- BENZENE DISSOLV (µg/L) (34572)	1METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	26DIMET NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	2METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	3-BETA- COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	CHLORO- BENZENE DISSOLV (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLTERD REC (µg/L)
	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	CHLORO- BENZENE DISSOLV (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 03 NOV	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	CHLORO- BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLITERD REC (µg/L) (62057)
OCT 03 NOV 05 DEC 18 JAN 23	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	CHLORO- BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLITERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLITERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLITERD REC (µg/L) (62057)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900) <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 8	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19	DIS- SOLVED (µg/L as Fe) (01046)  <10 	DIS- SOLVED (µg/L as Pb) (01049)  E.07 	TOTAL RECOV- ERRBLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  <2.0	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  3.9 	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR	DIS- SOLVED (µg/L as Fe) (01046)  <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.07  .15	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  <2.0  <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  3.9  1.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  8 9	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY	DIS- SOLVED (µg/L as Fe) (01046)  <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.07  .15	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)  <2.0  <2.0	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  <.01 E.01	NIUM, DIS- SOLVED (μg/L as Se) (01145)  3.9  1.2  	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  8 9	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY 29	DIS- SOLVED (µg/L as Fe) (01046)  <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.07  .15	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  <2.0  <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  3.9  1.2	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT     03 NOV     05 DEC     18 JAN     23 FEB     19 19 MAR     19 APR     23 MAY     29 JUN 17	DIS- SOLVED (μg/L as Fe) (01046)  <10  <10   60 <10	DIS- SOLVED (µg/L as Pb) (01049)  E.07  .15   .17 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1 M M	NESE, DIS- SOLVED (µg/L as Mn) (01056)  <2.0  <2.0   4.7 <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01 E.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  3.9  1.2    3.3 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  8 9 3 <1	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY 29 JUN 17 24 JUL	DIS- SOLVED (μg/L as Fe) (01046)  <10  <10   60 <10	DIS- SOLVED (µg/L as Pb) (01049)  E.07  .15   .17 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1 M M	NESE, DIS- SOLVED (μg/L as Mn) (01056)  <2.0  <2.0   4.7 <2.0	TOTAL RECOV- BRABLE (μg/L as Hg) (71900)  <.01 E.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  3.9 1.2 3 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  8 9 3 <1	CHLORO-BENZENE DISSOLV (µg/L) (34572)  <.5	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY 29 29 JUN 17 24 JUL 24 AUG	DIS- SOLVED (µg/L as Fe) (01046)  <10  <10   60 <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  E.07  .15   .17 <.08   E.05	TOTAL RECOV- ERRABLE (µg/L as Pb) (01051)  <1 <1 M M <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  <2.0  <2.0   4.7 <2.0	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01 E.01 <.01 <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  3.9 1.2 3 <.3 1.9	DIS- SOLVED (µg/L as Zn) (01090)  9 2	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  8 9 3 <1 2	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)  <.5 <.5 <.5	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT     03 NOV     05 DEC     18 JAN     23 FEB     19 19 APR     23 MAY     29 JUN     17 24 JUL 24	DIS- SOLVED (μg/L as Fe) (01046)  <10  <10   60 <10	DIS- SOLVED (µg/L as Pb) (01049)  E.07  .15   .17 <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1 M M	NESE, DIS- SOLVED (μg/L as Mn) (01056)  <2.0  <2.0   4.7 <2.0	TOTAL RECOV- BRABLE (μg/L as Hg) (71900)  <.01 E.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  3.9 1.2 3 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  8 9 3 <1	CHLORO-BENZENE DISSOLV (µg/L) (34572)  <.5	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)

# 07052500 JAMES RIVER AT GALENA, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	3METHYL 1(H)- INDOLE, WATER, FLTERD REC (µg/L) (62058)	3-TERT- BHA, WATER, FLTERD REC (µg/L) (62059)	4-CUMYL PHENOL, WATER, FLTERD REC (µg/L) (62060)	4-OCTYL PHENOL, WATER, FLTERD REC (µg/L) (62061)	4-TERT- OCTYL- PHENOL, WATER, FLTERD REC (µg/L) (62062)	5METHYL 1HBENZO TRIAZLE WATER, FLTERD REC (µg/L) (62063)	ACETO- PHENONE WATER, FLTERD REC (µg/L) (62064)	AHT NAPH- THALENE WATER, FLTERD REC (µg/L) (62065)	ANTHRA- CENE DISSOLV (µg/L) (34221)	ANTHRA- QUINONE WATER, FLTERD REC (µg/L) (62066)	BENZO- A- PYRENE DISSOLV (µg/L) (34248)	BENZO- PHENONE WATER, FLTERD REC (µg/L) (62067)	BETA- SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)
OCT 03													
NOV 05													
DEC 18													
JAN 23													
FEB 19													
19 MAR													
19 APR													
23 MAY													
29	<1	<5	<1	<1	<1	<2	<.5	<.5	<.5	<.5	<.5	M 	<2
JUN													
17 24	<1	 <5	<1	<1	<1	<2	<.5	<.5	<.5	<.5	<.5	<.5	<2
JUL 24	<1	<5	<1	<1	<1	<2	<.5	<.5	<.5	<.5	<.5	E.1	<2
AUG 19													
SEP 09													
DATE	BISPHE- NOL A, WATER, FLTERD REC (µg/L) (62069)	BRO- MACIL, WATER, DISS, REC (µg/L) (04029)	BROMO- FORM DISSOLV (µg/L) (34288)	CAF- FEINE, WATER FLTRD REC (µg/L) (50305)	CAMPHOR WATER, FLTERD REC (µg/L) (62070)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBA- ZOLE, WATER, FLTERD REC (µg/L) (62071)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CHOLES- TEROL, WATER, FLTERD REC (µg/L) (62072)	COT- ININE, WATER, FLTERD REC (µg/L) (62005)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	D-LIMO- NENE, WATER, FLTERD REC (µg/L) (62073)	FLUOR- ANTHENE DISSOLV (µg/L) (34377)
DATE OCT 03	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L)	ANTHENE DISSOLV (µg/L)
OCT	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L)	ANTHENE DISSOLV (µg/L)
OCT 03 NOV	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L)	ANTHENE DISSOLV (µg/L)
OCT 03 NOV 05 DEC 18 JAN	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L)	ANTHENE DISSOLV (µg/L)
OCT 03 NOV 05 DEC 18 JAN 23 FEB	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLITERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLITED REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLIRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLITED REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLIRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLITED REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLIRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY 29	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)  M	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FITERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY 29 JUN	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FILTRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)  E1	ININE, WATER, FLTERD REC (µg/L) (62005)	AZIMON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)             
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY 29 29 JUN 17 24	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)  M	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLITRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FITERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 APR 23 MAY 29 29 JUN 17 24 JUL 24	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)  M	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLIRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY 29 29 JUN 17 24 JUL	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FITRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)  <1 <1 <1	AZIMON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)

# 07052500 JAMES RIVER AT GALENA, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	HHHMCP- BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	INDOLE, WATER, FLTERD REC (µg/L) (62076)	ISOBOR- NEOL, WATER, FLTERD REC (µg/L) (62077)	ISO- PHORONE DISSOLV (µg/L) (34409)	ISO- PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	ISO- QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	MENTHOL WATER, FLTERD REC (μg/L) (62080)	METAL- AXYL WATER FLTRD REC (µg/L) (50359)	METHYL SALICY- LATE, WATER, FLTERD REC (µg/L) (62081)	METO- LACHLOR WATER DISSOLV (μg/L) (39415)	DEET, WATER, FLTERD REC (µg/L) (62082)	NAPHTH- ALENE DISSOLV (μg/L) (34443)	NONYL- PHENOL, DIETHOX WATER, FLTERD REC (µg/L) (62083)
OCT 03													
NOV 05													
DEC 18													
JAN 23													
FEB 19													
19 MAR													
19 APR													
23 MAY													
29 29	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	M	<.5	<5 
JUN 17													
24	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	M	<.5	<5
JUL 24	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	М	М	E.1	<.5	<5
AUG 19													
SEP 09													
DATE	DI- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	MONO- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	PARA- CRESOL, WATER, FLTERD REC (µg/L) (62084)	PARA- NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	PENTA- CHLORO- PHENOL DISSOLV (µg/L) (34459)	PHENAN -THRENE DISSOLV (µg/L) (34462)	PHENOL WATER FILTRD (µg/L) (34466)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PYRENE DISSOLV (µg/L) (34470)	STIGMA- STANOL, WATER, FLTERD REC (µg/L) (62086)	TETRA- CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	FYROL CEF, WATER, FLTERD REC (µg/L) (62087)	FYROL PCF, WATER, FLTERD REC (µg/L) (62088)
DATE  OCT  03	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L)	NONYL- PHENOL, WATER, FLTERD REC (µg/L)	CHLORO- PHENOL DISSOLV (µg/L)	-THRENE DISSOLV (µg/L)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (µg/L)	DISSOLV (µg/L)	STANOL, WATER, FLTERD REC (µg/L)	CHLORO- ETHY- LENE DISSOLV (µg/L)	CEF, WATER, FLTERD REC (µg/L)	PCF, WATER, FLTERD REC (µg/L)
OCT 03 NOV 05	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L)	NONYL- PHENOL, WATER, FLTERD REC (µg/L)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (µg/L)	DISSOLV (µg/L)	STANOL, WATER, FLTERD REC (µg/L)	CHLORO- ETHY- LENE DISSOLV (µg/L)	CEF, WATER, FLTERD REC (µg/L)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L)	NONYL- PHENOL, WATER, FLITERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (μg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L)	NONYL- PHENOL, WATER, FLITERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (μg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18 JAN	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (μg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)  	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO-PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)  	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 MAR 19 MAR 23	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)  	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY— OCTYL— PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO-ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 19 APR 23 MAY 29 JUN	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO-PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO-ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 MAR 23 MAY 29 29 29 JUN 17	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY— OCTYL— PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO-ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 APR 23 APR 23 MAY 29 29 JUN 17 24 JUL 24	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY— OCTYL— PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO-PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 03 NOV 05 DEC 18 JAN 23 FEB 19 19 APR 23 MAY 29 JUN 17 24 JUL	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)  <1 <1 <1	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO-PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)  <.5	PCF, WATER, FLTERD REC (µg/L) (62088)

# 07052500 JAMES RIVER AT GALENA, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62089)	TRICLO- SAN, WATER, FLTERD REC (µg/L) (62090)	CITRATE WATER, FLTERD REC (µg/L)	TRIPHNL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	TRIS(2-BUTOXE-PHOS-PHATE, WATER, [µg/L)(62093)
OCT					
03 NOV					
05 DEC					
18					
JAN 23 FEB					
19					
19					
MAR					
19					
APR					
23 MAY					
29	<.5	<1	<.5	<.5	<.5
29					
JUN					
17					
24	<.5	<1	<.5	<.5	<.5
JUL					
24	<.5	<1	<.5	<.5	<.5
AUG					
19 SEP					
09					
09					

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

# 07052800 FLAT CREEK AT JENKINS, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $36^{\circ}46^{\circ}33^{\circ}$ , long  $93^{\circ}41^{\circ}09^{\circ}$ , in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.24, T.24 N., R.26 W., Barry County, Hydrologic Unit 11010003, 1.0 mi north of U.S. Highway 248 on County Road 1215 in Jenkins.

DRAINAGE AREA.--190 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1999 to current year.

DATE	TIME	SAMPL: TYPE	E	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 03	1220	ENVIRONM	ENTAL	17	10.4	114	7.9	317	18.1				
NOV 05	1410	ENVIRONM	ENTAL	43	10.7	114	7.8	326	17.1	170	59.2	4.91	1.36
DEC 17	1433	ENVIRONM	ENTAL	1170	8.7	85	7.7	232	12.6				
JAN 22	1530	ENVIRONM	ENTAL	46	15.0	134	8.6	296	8.7	160	55.1	4.42	.74
FEB 19	1340	ENVIRONM	ENTAL	126	11.2	108	7.1	296	11.3				
MAR 18	1450	ENVIRONM	ENTAL	120	11.9	113	8.2	296	11.3				
APR 23	1410	ENVIRONM	ENTAL	162	16.2	181	8.2	289	18.2				
MAY 29	1245	ENVIRONM	ENTAL	484	11.1	118	7.8	268	16.2	91	32.9	2.17	.14
JUN 17	1225	ENVIRONM	ENTAL	218	10.5	119	8.0	282	19.6				
JUL 23 23 AUG	1500 1550	BLANK ENVIRONM	ENTAL	 81	 8.8	 109	7.9	 305	 24.6	 160	.06 59.5	E.005 2.83	<.10 1.81
19	1355	ENVIRONM	ENTAL	54	9.1	115	7.9	306	25.4				
SEP 09	1400	ENVIRONM	ENTAL	34	8.5	107	7.8	309	25.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 03	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 03 NOV 05	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 03 NOV 05 DEC 17	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 03 NOV 05 DEC 17 JAN 22	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) E.07	GEN, $NO_2+NO_3$ DIS-SOLVED (mg/L as N) (00631)
OCT 03 NOV 05 DEC 17 JAN 22 FEB 19	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 139 158 91	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 137 158 90	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  167 193 110	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 80	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608) <.04 <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.07  E.08	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .97 1.42
OCT 03 NOV 05 DEC 17 JAN 22 FEB 19 MAR 18	DIS- SOLVED (mg/L as Na) (00930)  4.78 	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 139 158 91 138	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 137 158 90	BICAR-BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  167 193 110 158	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  5	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.91	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 5.2 4.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 80 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.02 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.07 E.08 .64 E.07	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .97 1.42 1.97
OCT 03 NOV 05 DEC 17 JAN 22 FEB 19 MAR 18 APR 23	DIS- SOLVED (mg/L as Na) (00930)  4.78  4.21	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 139 158 91 138 146	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 137 158 90 138 148	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 167 193 110 158 181	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.91  8.66	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 5.2 4.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 80 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.02 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.07 E.08 .64 E.07 E.08	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .97 1.42 1.97 1.67 2.10
OCT 03 NOV 05 DEC 17 JAN 22 FEB 19 MAR 18 APR 23 MAY 29	DIS- SOLVED (mg/L as Na) (00930)  4.78  4.21	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 139 158 91 138 146	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 137 158 90 138 148	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 167 193 110 158 181	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 5 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.91  8.66	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 5.2 4.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.02 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.07  E.08 .64  E.07  E.08  E.08	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .97 1.42 1.97 1.67 2.10
OCT 03 NOV 05 DEC 17 JAN 22 FEB 19 MAR 23 MAY 29 JUN 17	DIS- SOLVED (mg/L as Na) (00930)  4.78  4.21 	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  139 158 91 138 146 153 127	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 137 158 90 138 148 152	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 167 193 110 158 181 185 155	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.91  8.66	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  5.2 4.1 	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  188 178	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.02 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.07 E.08 .64 E.07 E.08 E.08 .10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .97 1.42 1.97 1.67 2.10 1.92 1.67
OCT 03 NOV 05 DEC 17 JAN 22 FEB 19 MAR 18 APR 23 MAY 29 JUN 17 JUL 23 23	DIS- SOLVED (mg/L as Na) (00930)  4.78  4.21   3.05	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  139 158 91 138 146 153 127 128	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  137  158  90  138  148  152  127  128	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 167 193 110 158 181 185 155	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.91  8.66   6.35	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 5.2 4.1 3.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  188 178 155	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.02 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.07 E.08 .64 E.07 E.08 E.08 .10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .97 1.42 1.97 1.67 2.10 1.92 1.67 1.81
OCT 03 NOV 05 DEC 17 JAN 22 FEB 19 MAR 18 APR 23 MAY 29 JUN 17 JUL 23	DIS- SOLVED (mg/L as Na) (00930)  4.78 4.21 3.05 <.09	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  139 158 91 138 146 153 127 128 123	WATER UNFLITED TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  137 158 90 138 148 152 127 128 124	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 167 193 110 158 181 185 155 156 152	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  8.91 8.66 6.35	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  5.2 4.1 3.3	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)(70300)  188 178 155 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.07 E.08 .64 E.07 E.08 E.08 .10 .11 E.08 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .97 1.42 1.97 1.67 2.10 1.92 1.67 1.81 1.80 <.05

# 07052800 FLAT CREEK AT JENKINS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
OCT 03	<.008	<.06	E.01	<.06	46	57	64						
NOV 05	E.006	<.06	E.01	E.03	К8	24	54	12	24	E.1	<.04	<.1	<6
DEC 17	.103	E.05	<.02	.18	910	2450	3400						
JAN 22	<.008	<.06	<.02	<.06	К6	К6	К4	11	19	.2	<.04	<.1	<6
FEB 19	E.003	<.06	<.02	<.06	K16	<1	25						
MAR 18	E.006	<.06	<.02	<.06	K1	K10	K17						
APR 23	E.006	<.06	E.02	<.06	<2	K18	К6						
MAY 29	<.008	E.04	.02	E.03	K660	К915	K1050	43	124	E.2	<.04	<.1	<6
JUN 17 JUL	<.008	<.06	.02	E.04	K16	35	58						
23 23	<.008 E.006	<.06	<.02 E.01	<.06	 K7	 39	 135	<1 1	3 38	<.2	<.04 <.04	<.1	<6
AUG 19	E.004	<.06 E.04	.02	E.04 E.03		K71	135			. 2		<.1	<6 
SEP 09	E.005	E.03	.02	E.03	K4 K16	K65	61						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (μg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
		3											
		5	E6	<.08	<1	E2.8	<.01	<.3		3			
		7											
		2	<10	<.08	<1	E1.1	.03	.3		2			
		9											
	MAR 1 APR	8											
		3											
		9	13	.16	<1	5.8	<.01	<.3		5			
		7											
	2	3 3	<10 <10	E.08	<1 <1	<2.0 4.2	<.01 <.01	<.3 <.3	1 1	1 2			
	AUG												
	SEP												

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.  $<--Numeric \ result$  is less than the value shown.

#### 07053400 TABLE ROCK LAKE NEAR BRANSON, MO

LOCATION.--Lat  $36^\circ35^\circ46^\circ$ , long  $93^\circ18^\circ35^\circ$ , in NW  $\frac{1}{4}$  sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010001, at dam on White River, 3.0 mi upstream from Fall Creek, and 6.1 mi southwest of Branson.

DRAINAGE AREA.--4,020 mi<sup>2</sup>.

PERIOD OF RECORD. -- September 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to July 18, 1958, nonrecording gage at same site and datum.

REMARKS.--Lake is formed by combination concrete-gravity and embankment type dam. Storage began on Sept. 9, 1956. Storage for purpose of filling to power pool level at elevation 881.0 ft and capacity 1,520,500 ac-ft began Nov. 24, 1958, and was reached Dec. 19, 1959. Capacity is 3,567,500 ac-ft at top of spillway gates, elevation 933.0 ft. Capacity is 3,462,000 ac-ft at top of flood control pool, elevation 931.0 ft. Capacity between elevations 915.0 ft and 931.0 ft is reserved for flood control, 760,000 ac-ft. The capacity at the lowest outlet, elevation 721.96 ft, is 3,530 ac-ft. Lake is used for flood control, power, and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,542,000 ac-ft, May 10, 1961, elevation, 932.52 ft; minimum, since initial filling to bottom of power pool level, 1,536,000 ac-ft, Feb. 8, 1965, elevation, 881.54 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,092,000 ac-ft, June 17 and 18, elevation, 923.59 ft; minimum, 2,439,000 ac-ft, Dec. 11, elevation, 908.65 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	909.61	909.41	908.88	914.66	915.86	914.99	915.46	915.48	922.27	921.43	916.34	915.42
2	909.63	909.47	908.97	914.48	915.99	915.12	915.45	915.71	922.30	921.25	916.31	915.37
3	909.66	909.45	908.93	914.31	915.95	915.15	915.38	915.82	922.24	921.05	916.30	915.25
4	909.69	909.41	908.91	914.19	915.86	915.07	915.38	915.83	922.21	920.85	916.26	915.24
5	909.86	909.41	908.92	914.25	915.85	915.02	915.32	915.81	922.39	920.64	916.26	915.21
6	909.84	909.42	908.89	914.30	915.75	914.99	915.25	916.03	922.57	920.41	916.24	915.15
7	909.83	909.44	908.92	914.34	915.61	915.15	915.48	916.01	922.54	920.29	916.13	915.14
8	909.93	909.47	908.92	914.32	915.49	915.06	918.08	917.52	922.50	920.08	916.15	915.15
9	910.04	909.54	908.90	914.30	915.47	915.09	919.74	919.01	922.41	919.86	916.15	915.07
10	910.27	909.53	908.81	914.33	915.28	915.07	920.14	919.22	922.48	919.63	916.18	914.85
11	910.39	909.53	908.65	914.22	915.26	915.06	920.09	919.14	922.53	919.44	916.19	914.74
12	910.45	909.67	908.76	914.24	915.32	914.92	919.95	919.11	922.57	919.29	916.09	914.63
13	910.43	909.76	908.81	914.26	915.31	914.82	919.79	919.47	923.01	919.02	916.10	914.36
14	910.44	909.74	908.76	914.22	915.27	914.80	919.57	919.57	923.25	918.75	916.17	914.41
15	910.39	909.67	908.88	914.18	915.26	914.95	919.29	919.45	923.32	918.50	916.13	914.44
16	910.29	909.58	910.50	914.12	915.28	914.91	918.95	919.17	923.48	918.25	916.04	914.24
17	910.22	909.51	912.51	914.03	915.38	915.00	918.62	919.90	923.59	918.06	916.00	913.98
18	910.16	909.46	913.38	913.93	915.33	915.10	918.25	920.89	923.59	917.89	915.99	913.75
19	910.09	909.42	913.82	913.94	915.13	915.88	917.82	921.11	923.53	917.64	915.97	913.62
20	910.02	909.29	914.08	913.96	914.99	917.03	917.38	920.96	923.40	917.41	915.89	913.45
21	909.95	909.10	914.31	913.91	914.97	917.15	916.99	920.84	923.30	917.18	915.81	913.50
22	909.83	909.06	914.53	913.86	914.82	916.95	916.57	920.87	923.13	917.00	915.73	913.48
23	909.89	909.09	914.68	913.92	914.90	916.56	916.27	920.91	922.94	916.86	915.68	913.40
24	909.93	909.10	914.77	913.99	914.99	916.15	916.08	920.97	922.71	916.73	915.66	913.53
25	909.95	909.01	914.90	914.04	915.03	916.01	916.02	920.99	922.55	916.65	915.66	913.60
26 27 28 29 30 31	909.94 909.91 909.87 909.74 909.62 909.44	909.06 908.97 908.88 908.88 908.84	914.87 914.89 914.84 914.85 914.84 914.73	914.11 914.19 914.14 914.02 914.13 914.90	914.96 914.95 914.94 	916.06 915.99 915.95 915.98 915.80 915.54	915.94 915.79 915.68 915.56 915.44	921.02 921.01 921.28 921.82 922.13 922.15	922.35 922.20 922.00 921.81 921.60	916.51 916.49 916.47 916.46 916.42 916.38	915.61 915.57 915.52 915.46 915.43 915.42	914.20 914.49 914.65 914.89 915.03
MEAN	909.98	909.34	911.59	914.19	915.33	915.53	917.19	919.33	922.69	918.48	915.95	914.47
MAX	910.45	909.76	914.90	914.90	915.99	917.15	920.14	922.15	923.59	921.43	916.34	915.42
MIN	909.44	908.84	908.65	913.86	914.82	914.80	915.25	915.48	921.60	916.38	915.42	913.40
( - )	2471000	2447000	2690000	2700000	2700000	2725000	2721000	3023000	2998000	2762000	2720000	2704000
( = )	-7000	-24000	+243000	+10000	0	+25000	-4000	+302000	-25000	-236000	-42000	-16000

CAL YR 2001....+353000 WTR YR 2002....+226000

<sup>(-)</sup> Contents, in acre-feet, at the end of the month.

<sup>(=)</sup> Change in contents, in acre-feet.

#### 07053450 WHITE RIVER BELOW TABLE ROCK DAM NEAR BRANSON, MO

#### WATER-QUALITY RECORDS

LOCATION.--Lat 36°35'42", long 93°18'32", sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010003, on left bank in southwest corner of U.S. Army Corps of Engineers' carpentry building, 600 ft below Table Rock Dam.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1987 to current year. (See remarks). DISSOLVED OXYGEN: June 1987 to current year. (See remarks).

INSTRUMENTATION. -- Water-quality monitor since June 1987.

REMARKS.--The number of missing days exceeds 20 percent of the year. The monitor was not operated from Jan. 7 to June 24.

		WATER	TEMPERATURE	, (DEG	REES C),	WATER YEAR	OCTOBER	2001 TO	SEPTEMBER	2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	NOVEMBER		DE	ECEMBER			JANUARY	
1	9.5	7.6	8.1	8.5	8.0	8.2	9.1	8.3	8.7	9.5	8.5	9.0
2	9.0 9.2	7.6 7.5	8.1 8.1	8.6 8.7	8.0 8.0	8.3 8.3	9.0 9.2	8.1 8.1	8.4 8.8	9.3 9.4	8.7 8.8	9.0 8.9
4	9.2	7.6	8.1	8.7	8.0	8.4	9.6	8.3	8.9	9.4	8.7	8.9
5	8.4	7.5	8.0	8.9	8.0	8.4	9.3	8.4	8.7	8.8	8.7	8.7
6 7	9.5 8.7	7.5 7.5	8.0 7.8	9.5 9.1	7.9 7.9	8.4 8.3	9.3 9.2	8.4	8.9 8.9	9.0	8.6	8.8
8	9.1	7.5	7.9	9.3	7.8	8.5	9.2	8.0	8.5			
9	8.5	7.6	7.9	8.9	8.0	8.5	9.2	7.9	8.6			
10	8.6	7.8	8.1	9.1	8.1	8.5	9.3	8.2	9.1			
11	8.6	7.8	8.0	9.0	7.9	8.3	9.4	8.1	9.1			
12 13	9.1 8.5	7.8 7.8	8.0 8.1	9.0 9.0	7.9 7.9	8.4 8.4	9.3 9.4	8.6 8.4	9.0 9.0			
14	8.8	7.8	8.2	8.7	8.0	8.4	9.4	8.5	9.1			
15	8.6	7.5	8.2	8.8	7.9	8.6	9.2	8.4	8.7			
16	8.5	8.0	8.3	9.0	8.3	8.7	8.5	8.4	8.4			
17 18	8.7	7.8 7.8	8.3 8.3	9.0	8.1	8.6	9.6	8.4	9.3			
19	8.6 8.6	7.8	8.3	8.9 8.9	8.2 8.5	8.6 8.7	9.7 10.0	8.6 8.5	9.3 9.3			
20	8.4	7.8	8.2	9.0	8.0	8.6	9.6	8.2	9.1			
21	8.4	7.9	8.2	9.0	8.0	8.7	9.4	8.4	8.9			
22	8.7	8.0	8.4	9.2	7.8	8.6	9.3	8.3	8.7			
23 24	8.8 9.2	7.8 7.7	8.1 8.4	8.8 9.1	8.0 8.2	8.6 8.6	9.2 9.3	8.3 8.1	8.6 8.6			
25	9.2	7.6	8.3	9.1	8.3	8.7	9.1	8.2	8.5			
26	9.2	7.6	8.2	9.1	8.2	8.7	9.5	8.2	9.1			
27	8.9	7.5	8.1	9.2	7.9	8.8	9.6	8.3	9.1			
28 29	8.8 8.4	7.6 7.6	8.1 8.2	9.1 9.2	8.2 8.1	8.8 8.8	9.6 9.7	8.6 8.5	9.1 9.1			
30	8.5	8.0	8.4	9.5	8.4	9.2	9.7	8.4	8.8			
31	8.7	8.2	8.4				9.6	8.4	9.0			
MONTH	9.5	7.5	8.2	9.5	7.8	8.6	10.0	7.9	8.9			
MONTH	9.5		8.2	9.5		8.6			8.9			
	9.5	7.5 JUNE	8.2		JULY		P	AUGUST			SEPTEMBER	ર
1		JUNE		9.8	JULY 9.7	9.8	12.9	AUGUST	11.5	11.7	SEPTEMBER	11.0
	9.5	JUNE	===		JULY 9.7 9.7	9.8 9.8	12.9 12.3	AUGUST 10.7 10.7	11.5 11.2	11.7 11.5	SEPTEMBEF 10.6 10.6	11.0 11.1
1 2 3 4	  	JUNE  	 	9.8 10.0 9.9 9.9	JULY 9.7 9.7 9.8 9.8	9.8 9.8 9.8 9.9	12.9 12.3 12.7 12.9	10.7 10.7 10.7 10.7	11.5 11.2 11.3 11.4	11.7 11.5 12.0 11.7	SEPTEMBER 10.6 10.6 10.6 10.6	11.0 11.1 11.2 11.0
1 2 3		JUNE  		9.8 10.0 9.9	JULY 9.7 9.7 9.8	9.8 9.8 9.8	12.9 12.3 12.7	10.7 10.7 10.7	11.5 11.2 11.3	11.7 11.5 12.0	SEPTEMBEF 10.6 10.6 10.6	11.0 11.1 11.2
1 2 3 4 5		JUNE  		9.8 10.0 9.9 9.9	JULY 9.7 9.7 9.8 9.8 9.8	9.8 9.8 9.8 9.9 9.9	12.9 12.3 12.7 12.9 10.9	10.7 10.7 10.7 10.7 10.8 10.8	11.5 11.2 11.3 11.4 10.8	11.7 11.5 12.0 11.7 11.7	SEPTEMBER 10.6 10.6 10.6 10.6 10.6	11.0 11.1 11.2 11.0 11.1
1 2 3 4 5		JUNE	  	9.8 10.0 9.9 9.9 9.9	JULY 9.7 9.7 9.8 9.8 9.8 9.8	9.8 9.8 9.9 9.9 10.0	12.9 12.3 12.7 12.9 10.9	10.7 10.7 10.7 10.8 10.8	11.5 11.2 11.3 11.4 10.8	11.7 11.5 12.0 11.7 11.7	SEPTEMBER 10.6 10.6 10.6 10.6 10.6	11.0 11.1 11.2 11.0 11.1 11.1
1 2 3 4 5		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1	JULY 9.7 9.7 9.8 9.8 9.8 9.8	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0	12.9 12.3 12.7 12.9 10.9 10.9 11.9	10.7 10.7 10.7 10.8 10.8	11.5 11.2 11.3 11.4 10.8 10.8 10.9	11.7 11.5 12.0 11.7 11.7 11.9 11.9	SEPTEMBER 10.6 10.6 10.6 10.6 10.6 10.6 10.6	11.0 11.1 11.2 11.0 11.1 11.1 11.1 11.0
1 2 3 4 5		JUNE		9.8 10.0 9.9 9.9 9.9	JULY 9.7 9.7 9.8 9.8 9.8 9.8	9.8 9.8 9.9 9.9 10.0	12.9 12.3 12.7 12.9 10.9	10.7 10.7 10.7 10.8 10.8	11.5 11.2 11.3 11.4 10.8	11.7 11.5 12.0 11.7 11.7	SEPTEMBER 10.6 10.6 10.6 10.6 10.6	11.0 11.1 11.2 11.0 11.1 11.1
1 2 3 4 5 6 7 7 8 9 10		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1	JULY 9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1	12.9 12.3 12.7 12.9 10.9 11.9 11.3 11.3	10.7 10.7 10.7 10.8 10.8 10.7 10.7 10.7 10.1 10.2 10.5	11.5 11.2 11.3 11.4 10.8 10.8 10.9 10.9	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.7	SEPTEMBER 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.5 10.5	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.0
1 2 3 4 5 6 7 8 9 10		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1 10.1 10.3	JULY 9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1	12.9 12.7 12.9 10.9 11.9 11.3 11.7	10.7 10.7 10.7 10.8 10.8 10.7 10.7 10.7 10.1 10.2 10.5	11.5 11.2 11.3 11.4 10.8 10.8 10.9 10.9 10.9	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7	11.0 11.1 11.2 11.0 11.1 11.1 11.1 11.0 11.0
1 2 3 4 5 6 7 8 9 10		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1 10.1 10.3	JULY 9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1 10.1 10.2	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1	12.9 12.3 12.7 12.9 10.9 10.9 11.3 11.3 11.7	10.7 10.7 10.7 10.8 10.8 10.8 10.7 10.1 10.2 10.5	11.5 11.2 11.3 11.4 10.8 10.9 10.9 10.9 11.0 11.0 11.4	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.9 11.6 11.7	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.8	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.0
1 2 3 4 5 6 7 8 9 10		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1 10.1 10.3	JULY 9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1	12.9 12.7 12.9 10.9 11.9 11.3 11.7	10.7 10.7 10.7 10.8 10.8 10.7 10.7 10.7 10.1 10.2 10.5	11.5 11.2 11.3 11.4 10.8 10.8 10.9 10.9 10.9	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7	11.0 11.1 11.2 11.0 11.1 11.1 11.1 11.0 11.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1 10.1 10.3	JULY 9.7 9.7 9.8 9.8 9.8 9.9 10.0 10.0 10.1 10.1 10.2 10.2	9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.1 1	12.9 12.3 12.7 12.9 10.9 10.9 11.3 11.3 11.7 11.9 11.8 12.4 11.9	10.7 10.7 10.7 10.8 10.8 10.8 10.7 10.1 10.2 10.5 10.6 10.6 10.6 10.7 10.8	11.5 11.2 11.3 11.4 10.8 10.9 10.9 10.9 11.0 11.0 11.4 11.4	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6 11.6 11.6	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.8 10.8 10.9	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.2 11.3 11.2 11.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1 10.3 12.1 10.4 10.4 10.4 10.4	JULY 9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.2 10.3 10.3 10.4	12.9 10.9 11.3 11.7 12.9 10.9 11.3 11.3 11.7 11.9 11.8 12.4 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.7 10.7 10.1 10.2 10.5 10.6 10.6 10.7 10.8	11.5 11.2 11.3 11.4 10.8 10.8 10.9 10.9 11.0 11.0 11.4 11.2	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6 11.6 11.8 11.5 11.6	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.9 10.9	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 10.1 10.1 10.3 12.1 10.4 10.4 10.4	JULY 9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4 10.4	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.2 10.3 10.3 10.4 10.4 10.4 10.5 10.5	12.9 12.3 12.7 12.9 10.9 10.9 11.3 11.3 11.7 11.9 11.8 12.4 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.8 10.7 10.1 10.2 10.5 10.6 10.6 10.7 10.8 10.8	11.5 11.2 11.3 11.4 10.8 10.9 10.9 10.9 11.0 11.0 11.4 11.4 11.2	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6 11.6 11.6 11.6 12.2 11.8 12.2	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.8 10.8 10.9 10.9	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1 10.3 12.1 10.4 10.4 10.4 10.4	JULY 9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.2 10.3 10.3 10.4	12.9 10.9 11.3 11.7 12.9 10.9 11.3 11.3 11.7 11.9 11.8 12.4 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.7 10.7 10.1 10.2 10.5 10.6 10.6 10.7 10.8	11.5 11.2 11.3 11.4 10.8 10.8 10.9 10.9 11.0 11.0 11.4 11.2	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6 11.6 11.8 11.5 11.6	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.9 10.9	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 10.1 10.1 10.3 12.1 10.4 10.4 10.4 10.4	JULY 9.7 9.7 9.8 9.8 9.8 9.9 9.8 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4 10.4 10.5	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.1 1	12.9 12.3 12.7 12.9 10.9 10.9 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.7 10.1 10.1 10.2 10.5 10.6 10.6 10.6 10.7 10.8 10.7 10.8	11.5 11.2 11.3 11.4 10.8 10.9 10.9 10.9 11.0 11.0 11.0 11.4 11.4 11.2	11.7 11.5 12.0 11.7 11.7 11.9 11.6 11.6 11.6 11.6 11.8 11.5 11.6	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.9 10.9 10.9 11.3	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.2 11.3 11.2 11.3 11.2 11.3 11.1 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 10.1 10.1 10.1 10	JULY 9.7 9.7 9.8 9.8 9.8 9.9 9.8 10.0 10.0 10.1 10.1 10.2 10.3 10.4 10.4 10.5 10.4	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.1 10.1 10.1 10.1 1	12.9 12.7 12.9 10.9 10.9 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.7 10.7 10.1 10.2 10.5 10.6 10.6 10.7 10.8 10.7 10.8 10.7 10.8	11.5 11.2 11.3 11.4 10.8 10.9 10.9 10.8 10.9 11.0 11.0 11.4 11.1 11.4 11.1 11.1 11.1	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6 11.8 11.5 11.6 12.2 11.8 12.2 12.0	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.9 10.9 10.9 11.3 11.2	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 10.1 10.1 10.3 12.1 10.4 10.4 10.4 10.5 10.6 10.7 10.7	JULY  9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4 10.4 10.5 10.4 10.6 10.6	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.4 10.2 10.3 10.3 10.3 10.4 10.6 10.6 10.6 10.6	12.9 12.3 12.7 12.9 10.9 10.9 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.8 10.7 10.1 10.2 10.5 10.6 10.6 10.7 10.8 10.8 10.7 10.5 10.6 10.7 10.8	11.5 11.2 11.3 11.4 10.8 10.8 10.9 10.9 11.0 11.4 11.4 11.4 11.1 11.1 11.1	11.7 11.5 12.0 11.7 11.7 11.9 11.6 11.6 11.6 11.8 11.5 11.6 12.2 12.2 12.0 12.0	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.9 10.9 10.9 11.3 11.2	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.2 11.3 11.2 11.3 11.1 11.2 11.3 11.1 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		JUNE		9.8 10.0 9.9 9.9 9.9 11.1 10.1 10.1 10.1 10	JULY 9.7 9.7 9.8 9.8 9.8 9.9 9.8 10.0 10.0 10.1 10.1 10.2 10.3 10.4 10.4 10.5 10.4	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.1 10.1 10.1 10.2 10.3 10.3 10.4 10.5 10.5 10.6 10.6	12.9 12.7 12.9 10.9 10.9 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.7 10.7 10.1 10.2 10.5 10.6 10.6 10.7 10.8 10.7 10.8 10.7 10.8	11.5 11.2 11.3 11.4 10.8 10.9 10.9 10.8 10.9 11.0 11.0 11.4 11.1 11.4 11.1 11.1 11.1	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6 11.8 11.5 11.6 12.2 11.8 12.2 12.0	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.9 10.9 10.9 11.3 11.2	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	        	JUNE		9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1 10.3 12.1 10.4 10.4 10.4 10.5 10.6 10.7 10.7	JULY  9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4 10.4 10.5 10.4 10.6 10.6 10.6 10.6	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.2 10.3 10.3 10.3 10.5 10.6 10.6 10.6 10.6 10.7 10.8 10.6	12.9 12.3 12.7 12.9 10.9 10.9 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.8 10.7 10.1 10.2 10.5 10.6 10.6 10.7 10.8 10.8 10.7 10.8 10.9 11.1 10.5	11.5 11.2 11.3 11.4 10.8 10.8 10.9 10.9 11.0 11.4 11.4 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.0 11.2	11.7 11.5 12.0 11.7 11.7 11.9 11.6 11.6 11.6 11.8 11.5 11.6 12.2 12.0 12.0 12.0 12.0	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.9 10.9 10.9 11.3 11.2 11.0 10.9 10.9	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.2 11.3 11.2 11.3 11.1 11.2 11.3 11.1 11.2 11.3 11.1 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	        	JUNE	         	9.8 10.0 9.9 9.9 9.9 11.1 10.1 10.1 10.1 10	JULY 9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4 10.4 10.5 10.4 10.6 10.6 10.6	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.4 10.2 10.3 10.3 10.4 10.5 10.6 10.6 10.6 10.6 10.6 10.6	12.9 12.3 12.7 12.9 10.9 11.9 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.7 10.7 10.1 10.2 10.5 10.6 10.6 10.6 10.7 10.8 10.7 10.8 10.7 10.9 11.0 10.5	11.5 11.2 11.3 11.4 10.8 10.9 10.9 10.9 11.0 11.0 11.1 11.4 11.2 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6 11.8 11.5 11.6 12.2 11.8 12.2 12.0 12.0 12.0	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.9 10.9 11.3 11.2 11.0 10.9 10.9 10.9 10.9 10.9 10.9 10.9	11.0 11.1 11.2 11.0 11.1 11.1 11.1 11.0 11.2 11.3 11.2 11.3 11.2 11.3 11.1 11.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	        9.6	JUNE	         	9.8 10.0 9.9 9.9 9.9 11.1 10.1 10.1 10.3 12.1 10.4 10.4 10.5 10.6 10.7 10.7 10.6 10.7 11.4 12.2 10.7	JULY  9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4 10.4 10.5 10.4 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.4 10.2 10.3 10.3 10.4 10.4 10.5 10.6 10.6 10.6 10.6 10.6 10.7 10.8 10.8 11.8	12.9 12.3 12.7 12.9 10.9 10.9 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.8 10.7 10.1 10.2 10.5 10.6 10.6 10.7 10.8 10.8 10.7 10.8 10.8 10.7 10.8 10.5 11.0 10.5 11.0 10.5 11.0 10.5 11.0 10.5 11.0 10.5	11.5 11.2 11.3 11.4 10.8 10.8 10.9 10.9 11.0 11.4 11.1 11.0 11.2 11.1 11.1 11.0 11.2 11.1 11.0	11.7 11.5 12.0 11.7 11.7 11.9 11.6 11.6 11.8 11.5 11.6 12.2 12.0 12.0 12.0 12.0 12.0 12.0 12.0	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.8 10.8 10.9 10.9 11.3 11.2 11.0 10.9 10.9 11.3 11.2	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.2 11.3 11.2 11.3 11.1 11.2 11.3 11.1 11.2 11.3 11.1 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 21 22 23 24 25 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	         9.6 9.6 9.7 9.7	JUNE	         9.5	9.8 10.0 9.9 9.9 9.9 11.1 11.8 10.1 10.1 10.4 10.4 10.4 10.5 10.6 10.7 10.7 10.6 10.7 11.4 12.2 10.7	JULY 9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4 10.6 10.6 10.6 10.6 10.6 10.6 10.8 10.8 10.7	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.3 10.3 10.4 10.5 10.6 10.6 10.6 10.6 10.6 10.6 10.8 11.3 10.8 10.9	12.9 12.7 12.9 10.9 11.3 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.7 10.7 10.1 10.2 10.5 10.6 10.6 10.6 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.6 10.7 10.8 10.7 10.8 10.7 10.6 10.7 10.8 10.7 10.9 10.7 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9	11.5 11.2 11.3 11.4 10.8 10.9 10.9 10.9 11.0 11.0 11.4 11.4 11.2 11.1 11.1 11.1 11.1 11.1	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6 11.6 11.8 11.5 11.6 12.2 11.8 12.0 12.0 12.0 12.0 12.0	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.9 10.9 11.3 11.2 11.0 10.9 10.9 11.3 11.2	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.2 11.3 11.2 11.3 11.1 11.2 11.3 11.1 11.2 11.3 11.1 11.2 11.3 11.1 11.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	        9.6	JUNE	         9.5 9.6 9.6 9.6 9.6 9.7	9.8 10.0 9.9 9.9 9.9 11.1 10.1 10.1 10.3 12.1 10.4 10.4 10.5 10.6 10.7 10.7 10.6 10.7 11.4 12.2 10.7	JULY  9.7 9.7 9.8 9.8 9.8 9.8 10.0 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.3 10.4 10.4 10.5 10.4 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6	9.8 9.8 9.8 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10.4 10.2 10.3 10.3 10.4 10.4 10.5 10.6 10.6 10.6 10.6 10.6 10.7 10.8 10.8 11.8	12.9 12.3 12.7 12.9 10.9 10.9 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9 11.9	10.7 10.7 10.7 10.8 10.8 10.8 10.7 10.1 10.2 10.5 10.6 10.6 10.7 10.8 10.8 10.7 10.8 10.8 10.7 10.8 10.5 11.0 10.5 11.0 10.5 11.0 10.5 11.0 10.5 11.0 10.5	11.5 11.2 11.3 11.4 10.8 10.8 10.9 10.9 11.0 11.4 11.1 11.0 11.2 11.1 11.1 11.0 11.2 11.1 11.0	11.7 11.5 12.0 11.7 11.7 11.9 11.6 11.6 11.8 11.5 11.6 12.2 12.0 12.0 12.0 12.0 12.0 12.0 12.0	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.8 10.8 10.9 10.9 11.3 11.2 11.0 10.9 10.9 11.3 11.2	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.2 11.3 11.2 11.3 11.1 11.2 11.3 11.1 11.2 11.3 11.1 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	         	JUNE	        9.5 9.6 9.6 9.6 9.7	9.8 10.0 9.9 9.9 9.9 11.1 10.1 10.1 10.1 10	JULY  9.7 9.8 9.8 9.8 9.9 9.8 10.0 10.0 10.1 10.1 10.2 10.2 10.3 10.4 10.4 10.5 10.4 10.6 10.6 10.6 10.6 10.6 10.6 10.8 10.8 10.7 10.7	9.8 9.8 9.9 9.9 9.9 10.0 10.1 10.0 10.1 10.1 10	12.9 12.3 12.7 12.9 10.9 11.9 11.3 11.3 11.7 11.9 11.9 11.9 11.9 11.9 11.9 11.7 11.6 11.6 11.7 11.3 11.3	10.7 10.7 10.7 10.8 10.8 10.7 10.1 10.2 10.5 10.6 10.6 10.6 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5	11.5 11.2 11.3 11.4 10.8 10.9 10.9 10.9 11.0 11.0 11.1 11.0	11.7 11.5 12.0 11.7 11.7 11.9 11.9 11.6 11.7 11.6 11.8 12.2 11.8 12.2 12.0 12.0 12.0 12.0 12.0 12.0 12.0	SEPTEMBER  10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.7 10.7 10.7 10.8 10.9 10.9 10.9 11.3 11.2 11.0 10.9 10.9 11.3 11.2 11.0 10.9 10.9 11.1 11.0	11.0 11.1 11.2 11.0 11.1 11.1 11.0 11.2 11.3 11.2 11.3 11.1 11.2 11.3 11.1 11.2 11.4 11.6 11.7 11.8

### 07053450 WHITE RIVER BELOW TABLE ROCK DAM NEAR BRANSON, MO--Continued

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OXYGEN DISSOLVED, (mg/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				סטעדט, (וווּיַ	_					2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	ECEMBER			JANUARY	
1				6.6	2.3	3.9	6.6	2.6	4.1	8.2		5.9
2 3				6.7 6.7	2.3 2.6	4.3	4.4 6.7	2.2	2.9 5.0	8.9 10.4	4.6 6.0	7.2 7.2
4 5	7.7 9.0	2.5 2.4	5.3 4.8	6.8 6.2	2.5 2.4	4.7 4.0	8.0 7.4	2.2	5.2 4.0	9.6 5.8	4.2 4.2	7.2 5.1
6	8.0	3.0	5.1	6.9	2.4	4.2	8.2	1.7	5.2	9.5	5.8	8.1
7	11.0	1.9	5.3	5.9	2.4	4.0	7.0	1.8	4.8	11.6	7.5	10.4
8 9	8.1 8.0	1.9 1.9	4.7 4.6	6.0 6.3	2.4 2.7	$\frac{4.1}{4.1}$	5.3 7.3	1.6 1.8	3.3 4.0			
10	6.2	1.5	4.1	5.3	2.3	3.5	8.8	2.8	5.3			
11 12	6.5 7.6	1.7	4.3 4.9	5.6 6.8	2.3	3.6 4.0	7.6 6.7	2.0	5.6 4.5			
13	8.3	2.6	5.4	6.2	2.2	3.7	7.1	1.4	4.4			
14 15	8.0 8.4	2.2 2.6	5.2 5.6	6.4 6.3	2.1 2.3	4.6 5.0	7.2 8.4	1.8 1.5	4.4 3.4			
16	8.1	2.0	5.1	6.7	3.3	5.0	2.7	0.3	1.3			
17	8.0	3.4	5.7	6.8	2.1	4.8	6.9	0.3	5.2			
18 19	6.8 6.7	3.3 3.7	5.0 5.0	5.8 7.0	2.0 3.8	3.9 5.1	6.0 6.9	1.9 1.8	4.4 4.5			
20	6.1	3.3	4.5	6.3	2.8	4.9	7.1	1.6	4.0			
21	7.0	3.4	5.4	7.2	2.6	4.6	7.2	1.6	3.5			
22 23	8.1 6.7	3.5 2.8	5.5 4.0	7.4 6.1	2.2 1.8	4.5 4.6	4.0 5.7	1.2 1.6	2.3 2.9			
24	6.7	3.0	4.9	6.4	1.7	3.7	4.3	1.6	2.5			
25	6.8	2.8	4.8	6.7	2.4	4.1	3.6	1.5	2.1			
26 27	6.6 6.9	3.2 3.2	4.7 4.5	7.6 7.1	2.0 2.8	5.3 5.5	7.6 8.1	1.5 2.0	4.9 4.9			
28	7.8	3.0	5.1	6.4	3.3	5.6	8.5	2.1	4.8			
29 30	6.9 6.9	2.9 4.1	5.2 5.5	7.6 7.3	3.4 3.8	5.5 5.8	8.5 8.6	2.2 1.8	5.4 4.9			
31	6.6	4.0	5.4				9.1	2.4	6.4			
MONTH				7.6	1.7	4.5	9.1	0.3	4.2			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN			MEAN			
		JUNE			JULY		I	AUGUST			SEPTEMBE	R
1 2		JUNE		6.1 6.1	JULY 5.8 5.8	6.0 5.9	6.8 6.7	AUGUST 3.9 3.6	5.5 5	8.2 8.4	3.7 4.2	R 6.1 6.2
1 2 3		JUNE	 	6.1 6.1 6.0	JULY 5.8 5.8 5.8	6.0 5.9 5.9	6.8 6.7 6.7	3.9 3.6 4.5	5.5 5 5.0	8.2 8.4 7.9	3.7 4.2 3.4	R 6.1 6.2 6.1
1 2		JUNE  		6.1 6.1	JULY 5.8 5.8	6.0 5.9	6.8 6.7	AUGUST 3.9 3.6	5.5 5	8.2 8.4	3.7 4.2	R 6.1 6.2
1 2 3 4 5		JUNE	   	6.1 6.1 6.0 6.2 6.4	JULY 5.8 5.8 5.8 5.5 5.5	6.0 5.9 5.9 5.9 6.0	6.8 6.7 6.7 6.6 7.4	3.9 3.6 4.5 4.3 5.0	5.5 5.0 4.9 7.0	8.2 8.4 7.9 8.6 8.2 7.8	3.7 4.2 3.4 4.3 2.6	6.1 6.2 6.1 6.1 5.0
1 2 3 4 5	  	JUNE	   	6.1 6.1 6.0 6.2 6.4	JULY 5.8 5.8 5.8 5.5 5.5 5.4 5.5	6.0 5.9 5.9 5.9 6.0 5.9	6.8 6.7 6.7 6.6 7.4 7.9 7.7	3.9 3.6 4.5 4.3 5.0 4.3 4.1	5.5 5.0 4.9 7.0 7.0	8.2 8.4 7.9 8.6 8.2 7.8 7.3	3.7 4.2 3.4 4.3 2.6 2.7 2.0	6.1 6.2 6.1 6.1 5.0 5.1 4.8
1 2 3 4 5 6 7 8 9		JUNE	    	6.1 6.1 6.0 6.2 6.4 6.5 7.8 6.0 7.0	JULY  5.8 5.8 5.5 5.5 5.5 5.4 5.5 5.5 5.4	6.0 5.9 5.9 5.9 6.0 5.9 5.8 6.3	6.8 6.7 6.7 6.6 7.4 7.9 7.7 7.7	3.9 3.6 4.5 4.3 5.0 4.3 4.1 4.1 2.8	5.5 5.0 4.9 7.0 7.0 5.9 6.1	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4	6.1 6.2 6.1 6.1 5.0 5.1 4.8 5.3 4.6
1 2 3 4 5 6 7 8 9		JUNE		6.1 6.1 6.0 6.2 6.4 6.5 7.8 6.0 7.0	JULY  5.8 5.8 5.5 5.5 5.5 5.4 5.5 5.4 5.8	6.0 5.9 5.9 6.0 5.9 5.9 5.8 6.3	6.8 6.7 6.7 6.6 7.4 7.9 7.7 7.7 7.2	3.9 3.6 4.5 4.3 5.0 4.3 4.1 4.1 2.8 3.9	5.5 5.0 4.9 7.0 7.0 5.9 5.6 6.1 5.7	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8	6.1 6.2 6.1 6.1 5.0 5.1 4.8 5.3 4.6
1 2 3 4 5 6 7 8 9 10		JUNE	     	6.1 6.1 6.2 6.4 6.5 7.8 6.0 7.0 6.9	JULY  5.8 5.8 5.5 5.5 5.4 5.5 5.4 5.5 5.7	6.0 5.9 5.9 5.9 6.0 5.9 5.9 6.3 6.2	6.8 6.7 6.6 7.4 7.9 7.7 7.7 7.2 7.6	3.9 3.6 4.5 4.3 5.0 4.3 4.1 4.1 2.8 3.9	5.5 5.0 4.9 7.0 7.0 5.9 5.6 6.1 5.7	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8	6.1 6.2 6.1 6.1 5.0 5.1 4.8 5.3 4.6 4.1
1 2 3 4 5 6 7 8 9 10		JUNE	     	6.1 6.1 6.0 6.2 6.4 6.5 7.8 6.0 7.0 6.9	JULY 5.8 5.8 5.5 5.5 5.5 5.4 5.5 5.4 5.5 5.5 5.6	6.0 5.9 5.9 6.0 5.9 5.8 6.3 6.2 5.8 5.7	6.8 6.7 6.6 7.4 7.9 7.7 7.2 7.6 8.6 6.0 6.8	3.9 3.6 4.5 4.3 5.0 4.1 4.1 2.8 3.9 3.6 3.6 3.5	5.5 5.0 4.9 7.0 7.0 5.9 5.6 6.1 5.7 5.3 4.4	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5	6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1
1 2 3 4 5 6 7 8 9 10		JUNE	    	6.1 6.1 6.0 6.2 6.4 6.5 7.8 6.0 7.0 6.9	JULY 5.8 5.8 5.8 5.5 5.5 5.4 5.5 5.4 5.8 5.7 5.8	6.0 5.9 5.9 5.9 6.0 5.9 5.8 6.2 5.9	6.8 6.7 6.6 7.4 7.9 7.7 7.7 7.2 7.6	3.9 3.6 4.5 4.3 5.0 4.1 2.8 3.9 3.6 3.6	5.5 5.0 4.9 7.0 7.0 5.9 5.6 6.1 5.7	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8	6.1 6.2 6.1 6.1 5.0 5.1 4.8 5.3 4.6 4.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		JUNE		6.1 6.1 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.9 5.8	JULY 5.8 5.8 5.5 5.5 5.5 5.4 5.5 5.4 5.5 5.4 5.6 5.4 5.3	6.0 5.9 5.9 6.0 5.9 5.8 6.2 5.8 5.7 5.6 5.5	6.8 6.7 6.6 7.4 7.9 7.7 7.2 7.6 8.6 6.0 6.8 6.8	3.9 3.6 4.3 5.0 4.3 4.1 4.1 2.8 3.9 3.6 3.5 3.6 3.5 3.6	5.5 5.0 4.9 7.0 7.0 5.9 5.6 6.1 5.7 5.3 4.8 5.0 5.5	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0 7.5 7.9 7.6 6.6 6.2	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6	6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.9 4.5 3.8 3.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		JUNE		6.1 6.1 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.9 5.7	JULY  5.8 5.8 5.8 5.5 5.5 5.5 5.4 5.5 5.5 5.4 5.8 5.7 5.5 6.4 5.3 5.2 5.2	6.0 5.9 5.9 5.9 6.0 5.9 5.9 5.8 6.2 5.8 5.7 5.5 5.5	6.8 6.7 6.6 7.4 7.9 7.7 7.7 7.2 7.6 8.6 6.0 6.8 7.9 7.1	3.9 3.6 4.3 5.0 4.3 4.1 4.1 4.1 2.8 3.9 3.6 3.6 3.5 3.6 3.7 3.4	5.5 5.0 4.9 7.0 7.0 5.9 6.1 5.7 5.3 4.4 4.8 5.5 5.6 5.4	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0 7.5 7.9 7.6 6.6 6.2	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.5 3.1 3.6 3.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		JUNE		6.1 6.1 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.9 5.8 5.7	JULY  5.8 5.8 5.5 5.5 5.4 5.5 5.4 5.8 5.7 5.6 5.4 5.3 5.2	6.0 5.9 5.9 6.0 5.9 5.9 6.3 5.8 6.2 5.8 5.5 5.5	6.8 6.7 6.6 7.4 7.9 7.7 7.2 7.6 8.6 6.0 6.8 7.9 7.1	3.9 3.6 4.5 4.3 5.0 4.3 4.1 2.8 3.9 3.6 3.6 3.5 3.6 3.3	5.5 5.0 4.9 7.0 7.0 5.6 6.1 5.7 5.3 4.4 4.8 5.0 5.5	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0 7.5 7.9 6.6 6.2	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.9 4.9 4.5 3.8 3.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		JUNE		6.1 6.1 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.9 5.7	JULY  5.8 5.8 5.8 5.5 5.5 5.5 5.4 5.5 5.4 5.5 5.6 5.4 5.8 5.7 5.6 5.4 5.3 5.2 5.0	6.0 5.9 5.9 6.0 5.9 5.8 6.2 5.8 5.7 5.5 5.5 5.5 5.4	6.8 6.7 6.6 7.4 7.9 7.7 7.7 7.2 7.6 8.6 6.0 6.8 6.8 7.9	3.9 3.6 4.3 5.0 4.3 4.1 4.1 2.8 3.9 3.6 3.6 3.5 3.6 3.5 3.6 3.5	5.5 5.0 4.9 7.0 7.0 5.6 6.1 5.7 5.3 4.8 5.5 5.6 4.5 5.5	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0 7.5 7.9 7.6 6.6 6.2 5.9 8.4	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.5 3.8 3.1 3.6 6.3 3.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		JUNE		6.1 6.0 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.9 5.8 5.7 6.0 5.6 6.7 5.4 5.5	JULY  5.88 5.88 5.55 5.5 5.4 5.55 5.44 5.5 5.66 5.44 5.3 5.2 5.20 4.9 4.9 5.1	6.0 5.9 5.9 6.0 5.9 5.8 6.2 5.8 5.5 5.4 5.2 5.3 5.3 5.3	6.8 6.7 6.6 7.4 7.9 7.7 7.2 7.6 8.6 6.8 6.8 7.9 7.1 7.3 6.6 6.6 7.3	3.9 3.6 4.3 5.0 4.3 4.1 2.8 3.9 3.6 3.6 3.5 3.6 3.6 3.3 4.7 3.4 4.0 3.2	5.5 5.0 4.9 7.0 7.0 5.6 6.1 5.7 5.4 4.4 8.0 5.5 5.4 5.1 5.3 6.1 5.3	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0 7.5 7.9 6.6 6.2 5.9 8.4 5.9 8.2 7.4	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6 1.5 3.3 3.2	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.9 4.9 4.9 4.9 5.3 3.1 3.6 3.3 4.7 5.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		JUNE		6.1 6.1 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.9 5.7 6.0 5.6 6.7 5.5 5.5 5.7	JULY  5.8 5.8 5.8 5.5 5.5 5.4 5.5 5.4 5.5 5.4 5.5 5.6 5.4 5.3 5.2 5.0 4.9 5.1 5.0	6.0 5.9 5.9 6.0 5.9 6.0 5.9 5.9 6.2 5.8 6.2 5.5 5.5 5.5 5.3 5.3 5.3 5.3 5.3	6.8 6.7 6.6 7.4 7.9 7.7 7.7 7.2 7.6 8.6 6.0 6.8 7.9 7.1 7.3 6.6 6.6 7.3	3.9 3.6 4.3 5.0 4.3 4.1 4.1 4.1 4.1 2.8 3.9 3.6 3.6 3.5 3.6 3.5 3.6 3.7 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	5.5 5.0 4.9 7.0 7.0 5.9 6.1 5.7 5.3 4.4 8.5 5.5 5.4 5.13 6.2 9.6 6.0	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0 7.5 7.9 7.6 6.6 6.2 5.9 8.4 5.9 8.4 5.9 8.2	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6 1.5 1.5 3.3 3.2	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.5 3.8 3.1 3.6 3.3 4.1 4.7 5.8 5.5 6.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		JUNE	        	6.1 6.0 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.8 5.7 6.0 5.6 6.7 5.4 5.5	JULY  5.8 5.8 5.5 5.5 5.4 5.5 5.4 5.5 5.4 5.8 5.7 5.6 5.4 5.3 5.2 5.2 5.0 4.9 4.9 5.1 5.1 5.1 5.1 6.5	6.0 5.9 5.9 6.0 5.9 5.9 6.2 5.8 6.2 5.8 5.5 5.4 5.2 5.4 5.2	6.8 6.7 6.6 7.4 7.9 7.7 7.2 7.6 8.6 6.8 6.8 7.9 7.1 7.3 6.6 6.6 7.3	3.9 3.6 4.5 4.3 5.0 4.3 4.1 2.8 3.9 3.6 3.6 3.5 3.6 3.3 4.7 3.4 4.0 3.2 4.8 4.1 3.3	5.5 5.0 4.9 7.0 7.0 5.6 6.1 7.3 4.4 8.0 5.5 5.4 6.1 5.5 5.4 6.1 5.5 6.2 6.1 5.6 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0 7.5 7.9 6.6 6.2 5.8 8.4 5.9 8.2 7.4 8.1	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6 1.0 1.5 3.3 3.2 4.1 4.9 4.7	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.5 3.8 3.1 3.6 3.3 4.7 5.8 5.5 6.5 6.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	         	JUNE	        	6.1 6.1 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.9 5.7 6.0 5.6 6.7 5.5 5.7 7.8 8.6 7.8	JULY  5.8 5.8 5.8 5.5 5.5 5.4 5.5 5.4 5.5 5.4 5.6 5.4 5.3 5.2 5.0 4.9 6.1 5.1 5.0 6.4 6.4 6.4	6.0 5.9 5.9 5.9 6.0 5.9 5.8 6.2 5.8 5.7 5.5 5.3 5.3 5.5 5.3 5.3 5.3 5.3	6.8 6.7 6.6 7.4 7.9 7.7 7.7 7.2 7.6 8.6 6.0 6.8 7.9 7.1 7.3 6.6 6.6 7.3 8.3 7.9 7.6	3.9 3.6 4.3 5.0 4.3 4.1 4.1 4.1 4.1 2.8 3.9 3.6 3.6 3.5 3.6 3.5 3.6 3.7 4.0 4.0 4.0 4.0 4.0 4.0 4.0 3.0 4.1 4.0 4.0 3.0 4.0 3.0 4.0 4.0 3.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	5.5 5.0 4.9 7.0 7.0 5.9 6.1 5.7 5.4 4.8 5.5 5.6 5.1 5.6 5.1 6.2 6.0 6.1 5.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6	8.2 8.4 7.9 8.6 8.2 7.8 7.3 8.1 7.0 7.0 7.5 7.9 7.6 6.2 5.8 8.4 5.9 8.4 5.9 8.4 5.9 8.4 5.9 8.6 8.2	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6 1.0 1.5 3.3 3.2 4.1 4.9 4.7	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.5 3.1 3.6 3.3 4.1 4.7 5.8 6.5 6.3 6.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	         5.4 6.4 6.3	JUNE	        	6.1 6.1 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.8 5.7 6.0 5.8 5.7 7.8 8.6 7.2 7.1 6.6	JULY  5.88 5.88 5.55 5.5 5.4 5.55 5.44 5.5 5.64 5.3 5.2 5.04 4.9 5.11 5.05 4.4 4.6 3.6	6.9 5.9 5.9 6.0 5.9 5.9 6.2 5.8 5.5 5.5 5.4 5.2 5.3 5.4 5.2 5.3 5.4 5.5 5.5 5.5 5.6 5.6 5.6 5.6 5.6 5.6 5.6	6.8 6.7 6.6 7.4 7.9 7.7 7.2 7.6 8.6 6.8 6.8 7.9 7.1 7.3 6.6 6.6 7.3 8.3 7.9 7.6 9.7 7.7	3.9 3.6 4.3 5.0 4.3 4.1 4.1 2.8 3.9 3.6 3.6 3.3 4.7 3.4 4.0 3.2 4.8 4.1 3.3 3.0	5.5 5.0 4.9 7.0 7.9 5.1 5.7 5.4 4.8 5.5 5.4 6.1 5.3 6.9 6.1 5.3 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	8.2 8.4 7.9 8.6 8.2 7.8 7.0 7.0 7.5 7.9 6.6 6.2 5.9 8.4 5.9 8.2 7.4 8.1 8.0 8.2	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6 1.0 1.5 3.3 3.2 3.2 4.1 4.9 4.7	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.9 4.9 4.5 3.8 3.1 3.6 3.3 4.1 4.7 5.8 5.5 6.3 6.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	         5.4 6.4 6.3 6.3	JUNE	        5.3 6.0 6.3 6.2 6.2	6.1 6.0 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.8 5.7 6.0 5.6 6.7 5.4 5.5 5.7 7.8 8.6 7.2	JULY  5.88 5.88 5.55 5.5 5.4 5.55 5.4 5.5 5.6 5.4 5.3 5.2 5.2 5.2 5.0 4.9 4.9 5.1 5.1 5.1 6.5 6.4 4.4 4.6	6.0 5.9 5.9 6.0 5.9 5.9 6.2 5.9 5.5 5.4 5.2 5.3 5.4 5.2 5.3 5.4 5.2 5.3 5.4 5.2 5.3 5.4 5.3 5.4 5.5 5.6 5.7 5.7 5.8 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9	6.8 6.7 6.6 7.4 7.9 7.7 7.2 7.6 8.6 6.8 6.8 7.9 7.1 7.3 6.6 6.6 7.3 8.3 7.9 7.4 7.5	3.9 3.6 4.3 5.0 4.3 4.1 4.1 4.1 2.8 3.9 3.6 3.5 3.6 3.7 3.4 4.0 4.0 4.0 4.0 3.2 4.8 4.1 3.3 3.0 3.0 3.2 3.9	5.5 5.0 4.9 7.0 7.0 5.6 6.1 5.7 5.4 4.8 5.5 5.4 6.1 5.3 6.2 6.1 5.3 6.2 6.1 5.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6	8.2 8.4 7.9 8.6 8.2 7.8 7.0 7.0 7.5 7.9 6.6 6.2 5.9 8.4 8.9 8.2 7.4 8.1 8.5 	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6 1.0 1.5 3.3 3.2 4.1 4.9 4.7	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.5 3.8 3.1 3.6 3.3 4.7 5.8 5.5 6.5 6.6 6.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	         5.4 6.4 6.3 6.3 6.3 6.2 6.1	JUNE	        5.3 6.0 6.3 6.2 6.2 6.1 6.0	6.1 6.1 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.8 5.7 6.0 5.8 5.7 7.8 8.6 7.2 7.8 8.6 7.2 7.4 6.3 6.3 6.3	JULY  5.88 5.88 5.55 5.5 5.4 5.55 5.44 5.5 5.44 5.3 5.2 5.04 4.9 5.1 5.05 4.4 4.6 4.6 4.4 4.1 3.4	6.99 5.99 5.90 5.98 5.55 5.55 5.43 5.23 5.45 5.55 5.55 5.55 5.55 5.55 5.55 5.5	6.8 6.7 6.6 7.4 7.9 7.7 7.2 7.6 8.6 6.8 6.8 7.9 7.1 7.3 6.6 6.7 7.3 8.3 7.9 7.6 9.7 7.7	3.9 3.6 4.3 5.0 4.3 4.1 2.8 3.9 3.6 3.6 3.3 4.7 3.4 4.0 3.2 4.8 4.1 3.3 3.0 3.6 3.3	5.5 5.0 7.0 7.9 6.1 7.3 4.4 8.0 5.5 5.4 6.1 7.5 6.1 7.5 6.1 7.5 6.1 7.5 6.1 7.5 6.1 7.5 6.1 7.5 6.1 7.5 6.1 7.5 6.1 7.5 6.1 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.2 8.4 7.9 8.6 8.2 7.8 7.0 7.0 7.5 7.9 6.6 6.2 5.9 8.4 8.1 8.0 8.2 7.4 8.1 8.0 8.2	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6 1.0 1.5 3.3 3.2 3.2 4.1 4.9 4.7	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.9 4.9 4.9 4.5 5.5 6.3 6.3 6.3 6.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		JUNE		6.1 6.0 6.2 6.4 6.5 7.8 6.0 7.0 6.9 6.5 6.0 5.8 5.7 6.0 5.6 7.8 8.6 7.2 7.8 8.6 7.2	JULY  5.88 5.88 5.55 5.5 5.4 5.55 5.4 5.8 5.7 5.56 5.4 5.3 5.2 5.2 5.0 4.9 4.9 5.1 5.1 5.1 6.4 4.4 4.6 6.4 4.4 4.1	6.09.55.99.66.2 5.98.76.5 5.43.23 3.45.23 5.14.9	6.8 6.7 6.6 7.4 7.9 7.7 7.2 7.6 8.6 6.8 7.9 7.1 7.3 6.6 6.6 7.3 8.3 7.9 7.4 7.5 7.8 7.8	3.9 3.6 4.3 5.0 4.3 4.1 2.8 3.9 3.6 3.6 3.5 3.6 3.3 4.7 3.4 4.0 3.2 4.8 4.1 3.3 3.0 3.2 4.3	5.5 5.0 4.9 7.0 7.9 65.1 7.3 4.4 8.0 5.5 6.1 5.3 6.1 5.3 6.1 5.3 6.1 5.3 6.1 5.3 6.1 5.3 6.1 5.3 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	8.2 8.4 7.9 8.6 8.2 7.8 7.0 7.0 7.5 7.9 6.6 6.2 5.9 8.2 7.4 8.1 8.5 	3.7 4.2 3.4 4.3 2.6 2.7 2.0 1.9 1.4 2.8 2.9 1.4 2.5 1.3 0.6 1.0 1.5 3.3 3.2 3.2 4.1 4.9 4.7	8 6.1 6.2 6.1 5.0 5.1 4.8 5.3 4.6 4.1 4.9 4.5 3.8 3.1 3.6 3.3 4.7 5.8 5.5 6.5 6.6 6.6

#### 07053500 WHITE RIVER NEAR BRANSON, MO

LOCATION.--Lat 36°35'51", long 93°17'42", in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010003, on left bank 0.9 mi downstream from Table Rock Dam, 2.1 mi upstream from Fall Creek, 5.0 mi southwest of Branson, 7.4 mi upstream from Missouri Pacific bridge, and at mile 527.8.

DRAINAGE AREA. -- 4,022 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1951 to current year. July 1909 to December 1910 gage heights and discharge measurements only.

GAGE.--Water-stage recorder. Datum of gage is 696.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). July 19, 1909, to Dec. 31, 1910, nonrecording gage at site 7.4 mi downstream at different datum; Oct. 1, 1951, to Mar. 6, 1952, nonrecording gage at same site and datum.

REMARKS.--Flow regulated by Table Rock Lake (07053400) since Sept. 9, 1956.

COOPERATION. -- Records furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 89,100 ft<sup>3</sup>/s, May 16, 1956; gage height, 36.9 ft.

		DISCHAF	RGE, CUBIC	FEET PER		WATER YE MEAN VA	CAR OCTOBER LUES	2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	157 472 995 1120 214	685 1530 577 1610 770	321 40 2970 1220 1060	2470 4150 4580 2700 40	8090 11200 9740 8310 6820	2480 4490 5690 8840 7890	5990 4650 4890 3150 4000	3560 850 1940 4060 3870	2580 3770 6000 4530 5070	6030 6450 6460 6620 6630	1920 2190 1230 2620 687	1100 1580 2910 1420 1630
6 7 8 9	152 144 169 140 153	595 296 719 1760 134	2120 767 181 746 3400	40 2420 2860 1650 1100	7100 7560 6950 6900 8540	4300 40 6080 2550 4680	3870 3500 8110 14800 14600	2380 4790 8670 12900 14600	6240 6130 6190 6170 6260	6420 4200 6420 6410 6380	1510 2320 899 719 288	1900 1050 932 2680 4820
11 12 13 14 15	146 1110 2060 650 1940	166 692 909 2250 2680	2550 3080 2880 2290 636	2230 229 525 2350 2590	6850 5210 5670 7700 5900	6530 6880 6970 3290 412	14300 14300 14400 14100 14000	14300 14200 12600 13500 13600	6170 6340 5860 6340 3100	5850 6820 6760 6770 6780	210 3220 1410 628 2300	2780 2900 6020 195 141
16 17 18 19 20	3500 3190 2440 2840 1740	1660 1500 1000 3600 2710	40 5550 5520 1730 996	3570 2090 3950 40 40	5410 4270 2070 8490 7990	3080 872 4800 2970 4580	14200 14200 14200 14500 14300	14000 14900 15100 15200 15100	288 1040 2540 4050 6310	6680 6910 6870 6820 6680	3580 1960 1030 2600 2260	4610 6320 5230 5520 4390
21 22 23 24 25	1380 2810 148 386 214	3600 1070 1230 198 441	531 40 40 40 40	1490 2670 650 693 1650	7450 6990 40 40 3500	14800 14800 14700 14400 13500	14400 14200 14200 14200 8420	10600 5890 5120 4640 4820	6340 6330 6390 6430 6200	6450 6190 4820 3440 4170	3300 2910 1520 1260 918	403 619 5120 3830 487
26 27 28 29 30 31	279 503 641 2730 2950 3270	1210 2310 3510 3040 2840	2360 1540 2200 1730 1320 3440	684 40 3040 5700 2280 1820	6070 4790 5420 	9060 9480 8960 4920 9600 10900	7170 8530 6780 7320 8040	4170 4780 4190 4500 6890 6770	6230 6170 6310 5990 6340	3700 945 1120 2350 979 2110	1670 1720 2150 2090 1560 800	488 1410 306 548 2410
MEAN MAX MIN IN.	1247 3500 140 0.36	1510 3600 134 0.42	1657 5550 40 0.48	1946 5700 40 0.56	6252 11200 40 1.62	6856 14800 40 1.97	10440 14800 3150 2.90	8467 15200 850 2.43	5257 6430 288 1.46	5330 6910 945 1.53	1725 3580 210 0.49	2458 6320 141 0.68
STATIST	CICS OF MC	NTHLY MEA	AN DATA FO	R WATER Y	EARS 1960	- 2002 <sup>a</sup>	, BY WATER	YEAR (WY	()			
MEAN MAX (WY) MIN (WY)	1894 6660 1994 429 1982	2884 13110 1975 497 1999	4219 15210 1986 239 1996	3981 16070 1985 201 1990	4246 11970 1969 420 1964	5508 14800 1985 44.7 2000	6210 14800 1985 71.6 2000	5576 22650 1961 224 2000	3867 11610 1995 782 1981	3623 11470 1976 1158 1981	2961 6526 1979 1015 1977	2131 4421 1979 708 1967
SUMMARY	STATISTI	CS	FOR 2	001 CALEN	IDAR YEAR	F	OR 2002 WAT	TER YEAR		WATER YE	ARS 1960 -	2002 <sup>a</sup>
LOWEST	'ANNUAL N ANNUAL ME	EAN		1973 11800 40 157 6.66 5440 1220 138	Feb 27 Jan 12 Sep 23		15200 40 160 14.88 10100 3220 302	May 19 Dec 2 Oct 5		3924 7161 852 33000 35 40 13.26 9520 2600 140	May 12 Oct 31 1984,1996	1993 1981 1961 1959 7,2000

<sup>&</sup>lt;sup>a</sup> Post-regulation period.

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#### 07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS

#### WATER-QUALITY RECORDS

LOCATION.--Lat 36°36'33", long 93°14'04", in sec.4, T.22 N., R.21 W., Taney County, Hydrologic Unit 11010003, on the right bank in the College of the Ozarks water intake pump house and 4.75 mi below Table Rock Dam.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURE: May 1984 to current year. (See remarks). DISSOLVED OXYGEN: May 1984 to current year. (See remarks).

INSTRUMENTATION. -- Water-quality monitor since May 1984.

REMARKS.--The number of missing days exceeds 20 percent of the year. The monitor was not operated from Jan. 7 to June 23.

		5				-						
		WATER	TEMPERAT	TURE , (DEGI	REES C),	WATER YE	AR OCTOBER	R 2001 T	O SEPTEM	BER 2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	ECEMBER			JANUARY	•
1	13.0	11.2	11.7	9.6	8.6	9.0	9.9	8.8	9.2	8.9	7.6	8.5
2 3	13.8 11.3	10.8 8.4	11.7 10.2	9.9 9.3	8.6 8.6	9.3 8.9	10.6 9.3	8.7 8.5	9.3 9.1	8.9 9.1	8.0 7.9	8.6 8.6
4	10.5	8.3	8.9	11.1	8.6	9.4	10.2	9.2	9.5	8.8	8.0	8.5
5	9.1	8.4	8.8	10.3	8.5	9.1	10.1	9.1	9.4	8.5	8.1	8.3
6 7	10.3 10.7	8.7 9.0	9.3 9.7	10.7 10.4	9.0 8.9	9.5 9.4	9.5 9.5	9.0 8.8	9.3 9.0	8.1	7.3	7.8
8	11.1	9.6	10.2	9.9	8.8	9.4	9.5	8.9	9.2			
9 10	11.3 11.6	10.3 10.6	10.7 11.0	10.1 9.9	8.5 8.6	8.9 9.0	9.4 9.7	7.9 7.8	8.7 8.9			
11	12.2	11.2	11.6	10.6	8.9	9.6	9.6	8.1	9.0			
12	12.5	8.4	11.2	10.9	8.5	9.7 8.9	9.3	9.0	9.2 9.3			
13 14	9.0 9.7	8.2 8.1	8.6 8.8	11.0 9.2	8.3 8.5	8.8	9.4 9.6	9.2 9.1	9.3			
15	9.3	8.0	8.7	9.5	8.3	8.8	9.3	8.8	9.2			
16	9.4	7.8	8.5	9.5	8.3	8.8	9.7	9.0	9.2			
17 18	9.4 9.6	8.1 7.8	8.6 8.6	9.6 10.0	8.4 8.7	8.8 9.1	10.2 10.2	9.3 9.2	9.6 9.6			
19 20	9.4 9.6	8.2 8.5	8.7 8.9	9.2 9.3	8.6 7.8	8.9 8.3	10.0 9.6	8.8 8.1	9.5 9.0			
21	9.7	8.4	8.9	9.3	7.8	8.6	9.8	8.7	9.2			
22	9.4	8.3	8.9	9.2	7.9	8.6	9.4	8.8	9.1			
23 24	10.6 10.3	9.2 9.2	9.7 9.6	9.3 9.3	8.5 9.2	8.9 9.2	9.1 8.2	8.1 7.1	8.6 7.7			
25	9.8	8.8	9.3	10.4	8.9	9.3	7.1	5.7	6.5			
26	9.8	8.5	9.2	9.6	8.8	9.1	9.2	5.1	7.4			
27 28	9.6 8.9	8.0 7.7	8.6 8.4	9.0 8.9	8.0 8.2	8.7 8.6	9.5 9.6	8.0 8.2	9.0 9.1			
29 30	9.3 9.4	8.2 8.0	8.7 8.6	8.9 9.8	8.4 8.8	8.7 9.3	9.2 8.8	8.1 7.8	8.8 8.4			
31	9.1	8.1	8.5				9.3	8.0	8.6			
MONTH	13.8	7.7	9.4	11.1	7.8	9.0	10.6	5.1	8.9			
		JUNE			JULY		7	AUGUST			SEPTEMBE	סי
1				10.7	9.8	10.1	13.7	11.0	11.7	13.3	11.6	12.2
2				10.5	9.9	10.1	13.3	10.9	11.6	14.1	11.6	12.2
3 4				10.7 10.9	9.9 9.9	10.2 10.2	14.1 14.6	10.9 11.0	11.9 11.9	12.6 13.5	$11.4 \\ 11.4$	11.8 11.9
5				11.1	10.0	10.4	14.8	11.0	12.3	12.9	11.5	12.0
6				11.1	10.0	10.4	12.0			13.4	11.4	12.0
7 8				11.3 11.3	10.1 10.0	10.5 10.5	13.9 14.2	$\frac{11.2}{11.1}$	$12.1 \\ 11.9$	13.6 14.0	$\frac{11.4}{11.9}$	12.0 12.6
9 10				11.4 11.5	10.1 10.2	10.6 10.6	14.2 13.4	$11.7 \\ 12.4$	12.4 12.7	13.9 12.9	$11.4 \\ 11.4$	12.1 11.7
11				11.2	10.2	10.6	14.7	12.8	13.4	13.5	11.5	11.9
12				10.9	10.2	10.5	14.7	11.3	12.6	13.3	11.4	11.9
13 14				$\frac{11.1}{11.4}$	10.2 10.2	10.6 10.6	12.7 13.0	11.3 11.4	11.5 11.8	12.1 12.8	11.4 11.5	11.6 12.0
15				11.2	10.3	10.7	13.9	11.1	12.1	14.2	12.3	13.1
16				11.3	10.4	10.7	12.0	11.1	11.4	14.5	11.6	12.8
17 18				11.2 11.6	10.5 10.5	10.7 10.8	12.7 14.1	11.1 11.3	11.6 12.2	12.1 12.8	11.7 11.7	11.9 12.0
19				11.4	10.6	10.8	13.0	11.4	11.9	12.3	11.8	12.1
20				11.9	10.6	11.1	13.1	11.2	11.8	12.9	11.8	12.3
21 22				11.9 12.0	10.6 10.6	11.1 11.2	13.4 13.1	$\frac{11.1}{11.2}$	11.7 11.7	$14.6 \\ 14.2$	12.3 12.1	13.1 13.1
23				11.8	10.7	11.0	14.2	11.3	12.0	13.7	11.5	12.6
24 25	10.7	9.6 9.6	10.2 10.1	12.8 12.2	10.7 10.7	11.3 11.2	12.8 14.0	11.5 11.6	11.9 12.3	12.6 14.1	$\frac{11.4}{11.7}$	12.1 12.5
	10.5											
26	10.8	9.6	10.0	12.3	10.8	11.3	13.8	11.3	12.1	15.5	13.1	14.2
26 27	10.8 10.9	9.6	10.1	15.3	11.0	12.2	13.7	11.3	11.8	14.8	12.1	13.5
26 27 28 29	10.8 10.9 10.7 10.9	9.6 9.7 9.7	10.1 10.1 10.2	15.3 15.3 13.5	11.0 11.6 11.0	12.2 12.7 12.1	13.7 13.0 13.1	11.3 11.3 11.3	11.8 11.7 11.8	14.8 14.0 15.6	12.1 12.0 13.6	13.5 12.8 14.1
26 27 28	10.8 10.9 10.7	9.6 9.7	10.1 10.1	15.3 15.3	11.0 11.6	12.2 12.7	13.7 13.0	11.3 11.3	11.8 11.7	14.8 14.0	12.1 12.0	13.5 12.8

--- --- 15.6 11.4 12.4

MONTH --- --- 15.3 9.8 10.9

### 07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS--Continued

OXYGEN DISSOLVED, (mg/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	OVEMBER		D	ECEMBER			JANUARY	•
1 2 3 4 5	   6.37	   4.98	   5.80	7.88 8.52 6.71 8.61 7.31	5.43 6.13 5.39 5.04 5.16	6.73 7.09 6.15 6.61 6.01	7.34 7.43 6.96 7.35 6.90	5.79 6.13 5.66 5.44 5.53	6.39 6.87 6.22 5.91 6.08	9.45 8.95 9.41 8.95 8.43	6.98 6.91 7.04 7.19 7.49	7.87 7.37 7.72 7.83 8.03
6 7 8 9 10	8.22 9.30 9.71 9.78 8.74	5.58 7.17 8.31 8.28 7.04	6.77 8.32 8.89 9.11 7.83	7.21 7.45 7.40 6.09 5.76	4.33 5.34 4.81 4.17 3.72	5.78 6.10 6.26 4.84 4.60	7.82 7.95 7.48 8.13 7.34	5.52 5.47 6.23 6.33 5.25	6.11 6.28 6.65 7.12 6.32	9.03 9.10 	7.7 7.71  	8.29 8.48 
11 12 13 14 15	8.04 7.78 7.90 8.47 7.48	6.41 5.52 5.75 5.83 4.54	7.13 6.74 6.68 6.90 6.34	6.36 7.62 6.68 6.40 6.61	4.46 5.13 4.33 4.05 4.48	5.39 6.35 5.24 4.86 5.28	7.78 7.13 7.32 7.66 7.96	5.21 5.46 5.35 5.71 5.91	6.12 6.12 5.88 6.31 6.50		  	  
16 17 18 19 20	8.24 7.94 7.77 7.49 8.01	4.54 5.29 5.09 5.40 5.18	6.08 6.60 6.45 6.19 6.32	6.64 7.34 6.53 6.41 6.89	4.49 4.05 4.57 3.97	5.76 5.40 5.27 5.18 5.14	10.6 11.0 7.18 7.19 6.70	7.61 5.51 4.59 4.92 5.72	8.45 7.96 5.48 5.85 6.06		  	  
21 22 23 24 25	8.77 8.11 8.87 7.83 9.41	5.04 5.72 6.78 6.07 5.76	6.85 6.59 7.91 6.84 7.67	6.01 7.02 6.80 6.44 7.39	4.47 4.38 4.97 5.57 5.93	5.45 5.44 6.00 6.14 6.66	7.56 7.48 8.04 9.44 10.2	6.58 6.47 7.06 7.62 8.43	6.95 6.92 7.47 8.51 8.80	  	  	  
26 27 28 29 30 31	9.94 10.0 8.70 9.30 9.89 8.59	7.19 6.90 7.04 6.22 6.04 5.57	8.81 8.25 7.95 7.91 7.42 6.89	7.37 7.06 6.32 6.41 7.39	5.61 5.26 5.62 5.60 5.69	6.19 5.97 6.02 5.96 6.32	9.00 8.22 8.33 8.82 7.99	6.33 6.29 6.24 5.99 6.76	7.67 6.88 6.81 7.21 7.16	   	   	
MONTH				8.61	3.72	5.81						
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1 2 3 4 5		JUNE	  	7.69 6.84 6.60 6.47 6.29		6.08 5.80 5.64 5.42 5.21	  	AUGUST	  	9.98 10.5 8.10 10.6 11.4		7.50 7.18 6.14 6.39 7.04
2 3 4		  		6.84 6.60 6.47	4.81 5.35 4.94 4.73	5.80 5.64 5.42	 	  		9.98 10.5 8.10 10.6	5.79 5.81 4.57 3.12	7.50 7.18 6.14 6.39
2 3 4 5 6 7 8 9	   		   	6.84 6.60 6.47 6.29	4.81 5.35 4.94 4.73 4.48   3.47 5.47 5.70 5.60	5.80 5.64 5.42 5.21  6.70 6.75 6.54 6.52	   10.4 10.8	   2.97 4.54 3.65 2.79 2.54 3.59	  5.54 6.89 6.94 7.24 6.11 5.11	9.98 10.5 8.10 10.6 11.4 11.6 10.9 10.8 10.8 10.1 8.39 9.55 6.90	5.79 5.81 4.57 3.12 5.12 3.72 2.95 3.05 4.82 3.78 2.87 3.10 4.43	7.50 7.18 6.14 6.39 7.04 6.13 6.13 7.22 7.29
2 3 4 5 6 7 8 9 10 11 12 13 14				6.84 6.60 6.47 6.29  9.45 8.52 7.68 7.92 8.46	4.81 5.35 4.94 4.73 4.48   3.47 5.47 5.70 5.60 5.63	5.80 5.64 5.42 5.21  6.70 6.75 6.54 6.52 6.68	  10.4 10.8 8.91 9.69 9.44 6.58 8.64	   2.97 4.54 3.65 2.79 2.54 3.59 1.12	  5.54 6.89 6.94 7.24 6.11 5.11	9.98 10.5 8.10 10.6 11.4 11.6 10.8 10.8 10.1 8.39 9.55 6.90 7.56	5.79 5.81 4.57 3.12 5.12 3.72 2.95 3.05 4.82 3.78 2.87 3.10 4.43 4.85	7.50 7.18 6.14 6.39 7.04 6.13 6.13 7.22 7.29 5.40 5.34 5.86 5.83 6.25
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				6.84 6.60 6.47 6.29  9.45 8.52 7.68 7.92 8.46 8.12 8.16 7.60 8.01 7.41	4.81 5.35 4.94 4.73 4.48  3.47 5.47 5.60 5.63 5.65 5.58 5.46 5.43 5.31	5.80 5.64 5.42 5.21  6.70 6.75 6.54 6.52 6.68 6.53 6.51 6.24 6.14 6.02	  10.4 10.8 8.91 9.69 9.44 6.58 8.64 9.24	2.97 4.54 3.65 2.79 2.54 3.59 1.12 1.86	5.54 6.89 6.94 7.24 6.11 5.11 5.40 5.85	9.98 10.5 8.10 10.6 11.4 11.6 10.8 10.8 10.1 8.39 9.55 6.90 7.56 8.90 8.72 5.96 5.32 6.14	5.79 5.81 4.57 3.12 5.12 3.72 2.95 3.05 4.82 3.78 2.87 3.10 4.43 4.85 4.46 4.30 2.85 3.61 4.56	7.50 7.18 6.14 6.39 7.04 6.13 7.22 7.29 5.40 5.34 5.86 6.25 7.13 6.39 4.80 4.54 5.13
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				6.84 6.60 6.47 6.29  9.45 8.52 7.68 7.92 8.46 8.12 8.16 7.60 8.01 7.41 8.32 8.34 8.86 9.61 12.9	4.81 5.35 4.94 4.73 4.48  3.47 5.47 5.70 5.63 5.65 5.58 5.43 5.31 5.27 5.35 5.32 5.32 5.49 5.22	5.80 5.64 5.42 5.21  6.70 6.75 6.54 6.52 6.68 6.53 6.51 6.24 6.14 6.02 6.46 6.50 6.61 6.43 6.78	  10.4 10.8 8.91 9.69 9.44 6.58 8.64 9.24 8.02   10.2 9.54 8.29	2.97 4.54 3.65 2.79 2.54 3.59 1.12 1.86 1.39	5.54 6.89 6.94 7.24 6.11 5.40 5.85 5.87	9.98 10.5 8.10 10.6 11.4 11.6 10.8 10.8 10.1 8.39 9.55 6.90 7.56 8.90 8.72 5.96 5.96 6.14 7.47 7.18 7.50 8.34 6.67	5.79 5.81 4.57 3.12 5.12 3.72 2.95 3.05 4.82 3.78 2.87 3.10 4.43 4.85 4.46 4.30 2.85 3.61 4.56 4.72 5.40 5.09 4.82 4.84	7.50 7.18 6.14 6.39 7.04 6.13 7.22 7.29 5.40 5.34 5.83 6.25 7.13 6.39 4.50 4.54 5.13 5.58

# 07053700 LAKE TANEYCOMO AT BRANSON, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $36^\circ38^\circ09^\circ$ , long  $93^\circ12^\circ52^\circ$ , in SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.4, T.22 N., R.21 W., Taney County, Hydrologic Unit 11010003, 1,000 ft downstream of Turkey Creek, at bridge on Business Route 65 in Branson.

PERIOD OF RECORD.--July 1977 to June 1991 and November 1996 to current year.

DATE	TIME	SAMPLE TYPE		OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)
NOV 27	0815	ENVIRONM	ENTAL	6.7	59	7.2	259	8.9	130	37.5	7.87	1.53	5.55
MAR 19	1700	ENVIRONM	ENTAL	11.1	99	8.0	256	8.6					
APR 23 23	0840 0845	ENVIRONM REPLICAT		12.5	111	7.8	236	8.8					
MAY 22	0750	ENVIRONM	ENTAL	8.6	78	7.7	243	9.8	70	21.4	4.15	.13	4.57
JUN 18 18	0914 0915	BLANK ENVIRONM	ENTAL	8.8	 89	 7.7	 282	 15.0					
JUL 23	1430	ENVIRONM	ENTAL	5.8	55	7.5	227	11.8					
DATE	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)
NOV 27	108	109	133	0	10.4	<.1	8.6	<10	158	E.02	.23	.56	<.008
MAR 19	120	121	147	0				24		<.04	.29	.35	E.006
APR 23 23	95 	96 	117	0				<10 <10		<.04 <.04	.18 .24	.44	E.005 E.007
MAY 22 JUN	102	104	127	0	8.92	<.1	7.9	<10	136	<.04	.18	.63	<.008
18 18	 111	110	135	0				<10		<.04	.27	.61	E.005
JUL 23	96	97	119	0				<10		<.04	.17	.66	.008
DATE	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)
NOV 27	<.06	<.02	<.06	K15	K72	K18	7	18	.4	<.04	<.1	<6	23
MAR 19	<.06	<.02	E.04	270	K1540	600							
APR 23 23	<.06 <.06	<.02 <.02	<.06 <.06	K5 K2	<2 K4	K2 K2							
MAY 22 JUN	<.06	<.02	<.06	K8	К6	K8	4	15	.3	<.04	<.1	<6	<10
18	<.06	<.02	<.06	 K15	41	 K18							
JUL 23	<.06	<.02	<.06	K1	K10	К3							

# 07053700 LAKE TANEYCOMO AT BRANSON, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	1,4-DI- CHLORO- BENZENE DISSOLV (µg/L) (34572)	1METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 μ GF, REC (μg/L) (82660)	26DIMET NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	2METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	3-BETA- COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)	3METHYL 1(H)- INDOLE, WATER, FLTERD REC (µg/L) (62058)
NOV 27	<.08	<1	20.8	<.01	<.3	9			<.002				
MAR 19									<.006				
APR 23 23									<.006 <.006				
23 MAY 22	E.07	<1	5.3	<.01	E.3	1	<.5	<.5	<.006	<.5	<.5	<2	<1
JUN 18									<.006				
18 JUL							<.5	М	<.006	<.5	E.1	<2	<1
23							<.5	<.5	<.006	<.5	<.5	<2	<1
DATE	3-TERT- BHA, WATER, FLTERD REC (µg/L) (62059)	4-CUMYL PHENOL, WATER, FLTERD REC (µg/L) (62060)	4-OCTYL PHENOL, WATER, FLTERD REC (µg/L) (62061)	4-TERT- OCTYL- PHENOL, WATER, FLTERD REC (µg/L) (62062)	5METHYL 1HBENZO TRIAZLE WATER, FLITERD REC (µg/L) (62063)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ACETO- PHENONE WATER, FLTERD REC (µg/L) (62064)	AHT NAPH- THALENE WATER, FLTERD REC (µg/L) (62065)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ANTHRA- CENE DISSOLV (µg/L) (34221)	ANTHRA- QUINONE WATER, FLITERD REC (µg/L) (62066)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)
NOV 27						<.004			<.002	<.005			E.007
MAR 19						<.006			<.004	<.005			E.004
APR 23						<.006			<.004	<.005			E.006
23 MAY 22						<.006			<.004	<.005			E.006
JUN 18	<5 	<1	<1	<1	<2	<.006 <.006	<.5	<.5	<.004	<.005 <.005	<.5	<.5	<.007 <.007
18 JUL	<5	<1	<1	<1	<2	<.006	<.5	<.5	<.004	<.005	<.5	<.5	<.007
23	<5	<1	<1	<1	<2	<.006	<.5	<.5	<.004	<.005	<.5	<.5	<.007
DATE	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BENZO- A- PYRENE DISSOLV (µg/L) (34248)	BENZO- PHENONE WATER, FLTERD REC (µg/L) (62067)	BETA- SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)	BISPHE- NOL A, WATER, FLTERD REC (µg/L) (62069)	BRO- MACIL, WATER, DISS, REC (µg/L) (04029)	BROMO- FORM DISSOLV (µg/L) (34288)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAF- FEINE, WATER FLTRD REC (µg/L) (50305)	CAMPHOR WATER, FLTERD REC (µg/L) (62070)	CAR- BARYL WATER FLIRD 0.7 µ GF, REC (µg/L) (82680)	CARBA- ZOLE, WATER, FLTERD REC (µg/L) (62071)	FURAN WATER FLTRD 0 .7 µ GF, REC (µg/L) (82674)
NOV 27	<.010							<.002			<.041		<.020
MAR 19	<.010							<.002			<.041		<.020
APR 23 23	<.010 <.010							<.002 <.002			<.041 <.041		<.020 <.020
MAY 22 JUN	<.010	<.5	M	<2	<1	<.5	<.5	<.002	<.5	<.5	<.041	<.5	<.020
18 18	<.010 <.010	 <.5	 <.5	 <2	 <1	 <.5	 <.5	<.002 <.002	 <.5	 <.5	<.041 <.041	 <.5	<.020 <.020
JUL 23	<.010	<.5	<.5	<2	<1	<.5	<.5	<.002	<.5	<.5	<.041	<.5	<.020

# 07053700 LAKE TANEYCOMO AT BRANSON, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CHOLES- TEROL, WATER, FLTERD REC (µg/L) (62072)	COT- ININE, WATER, FLTERD REC (µg/L) (62005)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	D-LIMO- NENE, WATER, FLTERD REC (µg/L) (62073)	EPTC WATER FLTRD 0.7 μ GF, REC (μg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO- PROP WATER FLTRD 0.7 $\mu$ GF, REC ( $\mu$ g/L) (82672)
NOV 27 MAR	<.005			<.018	<.003	E.003	<.005	<.005	<.02		<.002	<.009	<.005
19 APR	<.005			<.018	<.003	<.006	<.005	<.005	<.02		<.002	<.009	<.005
23 23	<.005 <.005			<.018 <.018	<.003 <.003	E.003 E.004	<.005 <.005	<.005 <.005	<.02 <.02		<.002 <.002	<.009 <.009	<.005 <.005
MAY 22	<.005	<2	<1	<.018	<.003	<.006	<.005	<.005	<.02	<.5	<.002	<.009	<.005
JUN 18 18	<.005 <.005	 <2	 <1	<.018 <.018	<.003 <.003	<.006 <.006	<.005 <.005	<.005 <.005	<.02 <.02	 <.5	<.002 <.002	<.009 <.009	<.005 <.005
JUL 23	<.005	<2	<1	<.018	<.003	<.006	E.002	<.005	<.02	<.5	<.002	<.009	<.005
DATE	FLUOR- ANTHENE DISSOLV (µg/L) (34377)	FONOFOS WATER DISS REC (µg/L) (04095)	HHHMCP- BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	INDOLE, WATER, FLTERD REC (µg/L) (62076)	ISOBOR- NEOL, WATER, FLTERD REC (µg/L) (62077)	ISO- PHORONE DISSOLV (µg/L) (34409)	ISO- PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	ISO- QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	LINDANE DIS- SOLVED (µg/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	MENTHOL WATER, FLTERD REC (µg/L) (62080)	METAL- AXYL WATER FLTRD REC (µg/L) (50359)
NOV 27		<.003							<.004	<.035	<.027		
MAR 19		<.003							<.004	<.035	<.027		
APR 23		<.003							<.004	<.035	<.027		
23 MAY		<.003							<.004	<.035	<.027		
22 JUN	<.5	<.003	<.5	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027	<.5	<.5
18 18 JUL	<.5	<.003 <.003	<.5	<.5	<.5	<.5	<.5	<.5	<.004 <.004	<.035 <.035	<.027 <.027	<.5	<.5
23	<.5	<.003	<.5	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027	<.5	<.5
DATE	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 μ GF, REC (μg/L) (82667)	METHYL SALICY- LATE, WATER, FLTERD REC (µg/L) (62081)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 μ GF, REC (μg/L) (82671)	DEET, WATER, FLTERD REC (µg/L) (62082)	NAPHTH- ALENE DISSOLV (µg/L) (34443)	NAPROP- AMIDE WATER FLIRD 0.7 µ GF, REC (µg/L) (82684)	NONYL- PHENOL, DIETHOX WATER, FLTERD REC (µg/L) (62083)	DI- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	MONO- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	PARA- CRESOL, WATER, FLTERD REC (µg/L) (62084)
NOV 27	<.050	<.006		<.013	<.006	<.002			<.007				
MAR 19	<.050	<.006		<.013	<.006	<.002			<.007				
APR 23 23	<.050 <.050	<.006 <.006		<.013 <.013	<.006 <.006	<.002 <.002			<.007 <.007				
MAY 22 JUN	<.050	<.100	<.5	<.013	<.006	<.002	М	<.5	<.007	<5	<1	<1	<1
18 18	<.050 <.050	<.006 <.006	 <.5	<.013 <.013	<.006 <.006	<.002 <.002	 M	 E.1	<.007 <.007	 <5	 <1	 <1	 <1
JUL 23	<.050	<.006	<.5	<.013	<.006	<.002	E.2	<.5	<.007	<5	<1	<1	М

### 07053700 LAKE TANEYCOMO AT BRANSON, MO--Continued (Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	PARA- NONYL- PHENOL, WATER, FLITERD REC (µg/L) (62085)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PENTA- CHLORO- PHENOL DISSOLV (µg/L) (34459)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHENAN -THRENE DISSOLV (µg/L) (34462)	PHENOL WATER FILTRD (µg/L) (34466)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)
NOV 27		<.003	<.007	<.002	<.010		<.006			<.011	<.01	<.004	<.010
MAR 19		<.003	<.010	<.004	<.022		<.006			<.011	M	<.004	<.010
APR 23 23		<.003 <.003	<.010 <.010	<.004 <.004	<.022 <.022		<.006 <.006			<.011 <.011	<.01 <.01	<.004 <.004	<.010 <.010
MAY 22	<5	<.003	<.010	<.004	<.022	<2	<.006	<.5	E.3	<.011	<.01	<.004	<.010
JUN 18 18	 <5	<.003 <.003	<.010 <.010	<.004 <.004	<.022 <.022	 <2	<.006 <.006	 <.5	 <.5	<.011 <.011	<.01 <.01	<.004 <.004	<.010 <.010
JUL 23	<5	<.003	<.010	<.004	<.022	<2	<.006	<.5	.7	<.011	<.01	<.004	<.010
DATE	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	PYRENE DISSOLV (µg/L) (34470)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	STIGMA- STANOL, WATER, FLTERD REC (µg/L) (62086)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	TETRA- CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	THIO- BENCARB WATER FLITRD 0.7 µ GF, REC (µg/L) (82681)	FYROL CEF, WATER, FLTERD REC (µg/L) (62087)	FYROL PCF, WATER, FLTERD REC (µg/L) (62088)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)
NOV 27	<.011	<.02		<.011		<.02	<.034	<.02		<.005			<.002
MAR 19	<.011	<.02		<.005		<.02	<.034	<.02		<.005			<.002
APR 23 23	<.011 <.011	<.02 <.02		<.005 <.005		<.02 <.02	<.034 <.034	<.02 <.02		<.005 <.005			<.002 <.002
MAY 22	<.011	<.02	<.5	<.005	<2	<.02	<.034	<.02	<.5	<.005	<.5	<.5	<.002
JUN 18 18	<.011 <.011	<.02 <.02	 <.5	<.005 <.005	 <2	<.02 <.02	<.034 <.034	<.02 <.02	 <.5	<.005 <.005	 <.5	 <.5	<.002 <.002
JUL 23	<.011	<.02	<.5	<.005	<2	<.02	<.034	<.02	<.5	<.005	<.5	<.5	<.002
		DATE		TRIBUTL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62089)	TRICLO- SAN, WATER, FLTERD REC (µg/L) (62090)	TRI- ETHYL CITRATE WATER, FLTERD REC (µg/L) (62091)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	TRIPHNL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	TRIS(2-BUTOXE-PHOS-PHATE, WATER, FLTERD (µg/L) (62093)				
		NOV 27					<.009						
		MAR 1 APR	9				<.009						
		2 2	3 3				<.009 <.009						
		MAY 2 JUN	2	<.5	<1	<.5	<.009	<.5	<.5				
			8	<.5	<1	<.5	<.009 <.009	<.5	<.5				
			3	<.5	<1	<.5	<.009	М	<.5				

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### 07053810 BULL CREEK NEAR WALNUT SHADE, MO

LOCATION.--Lat 36°43'05", long 93°12'24", in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.4, T.23 N., R.21 W., Taney County, Hydrologic Unit 11010003, on downstream side of State Highway F bridge pier, 1.3 miles southwest of Walnut Shade and 3.9 miles upstream from Lake Taneycomo.

DRAINAGE AREA. -- 191 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1994 to September 1996, October 1997 to current year. Stage only station July 1991 to September 1994, and October 1996 to September 1997.

GAGE.--Water-stage recorder. Datum of gage is 712.45 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAY AUG 3.3 8.3 6.5 3.2 7.3 5.7 7 1 6.2 6.4 3.0 5.5 6.0 5.2 6.0 7.6 5.5 4.7 6.3 5.0 3 7 4.7 3.6 6.1 8.9 5.3 6.3 3.3 351 6.4 3.0 6.6 2.9 2.9 3.4 9.9 3.7 1370 35 2040 50 8.0 7.5 4.0 4.5 7.5 6.0 7.2 6.2 8.7 136 463 285 284 33 22 5.2 4.5 7.9 6.2 8.3 5.0 4.4 9.1 7.7 4.0 3.8 8.5 \_\_\_ 8 0 3 0 9.7 MEAN 12 9 25 7 74 2 20.8 7 62 4 83 MAX MIN 2.8 9.7 4.5 2.9 STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY) 72.9 28.2 MEAN 25.6 15.1 MAX 72.3 45.8 (WY) 44.0 4.75 6.24 74.7 72.4 68.0 63.9 31.4 34.7 2.31 3.02 4.77 MIN SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR FOR PERIOD OF RECORD ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 95.1 HIGHEST DAILY MEAN Feb 24 May May 8 2002 LOWEST DAILY MEAN Oct Sep 14 1996 2.8 Oct 2.8 1.6 ANNUAL SEVEN-DAY MINIMUM 3.3 Sep 28 3.2 Sep 1.8 Aug 17 1992 May May MAXIMUM PEAK FLOW ---May 8 2002 MAXIMUM PEAK STAGE 14.41 8 2002 14.41 May INSTANTANEOUS LOW FLOW \_\_\_ 2 4 1.6 Sep 13 1996 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 8.4 6.1 5.7

 $<sup>^{\</sup>rm a}$  From rating extended above 12,500 ft $^{\rm 3}/{\rm s}$ .

# 07053900 SWAN CREEK NEAR SWAN, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat  $36^\circ47^\circ02^*$ , long  $93^\circ05^\circ04^*$ , in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  Nec.3, T.24 N., R.20 W., Taney County, Hydrologic Unit 11010003, 0.8 mi south of Swan, 4.0 mi northwest of Highway 76 on County Highway AA.

DRAINAGE AREA.--148 mi<sup>2</sup>.

PERIOD OF RECORD. -- November 1999 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 27 27	1040 1045	ENVIRONMENTAL BLANK		48	9.6	88	7.8	423	10.1	230	50.7	25.9	.61 
JAN 08 08 MAR	0830 0835	ENVIRONMENTAL BLANK		38	13.7	105	7.3	388	3.1				
19 19 MAY	1315 1320	ENVIRONMENTAL BLANK		1400	11.3	103	8.0	306 	9.6				
22 22 JUL	1030 1031	ENVIRONMENTAL BLANK		232	9.0	92 	8.0	355 	15.1	180	41.2	18.6 .010	.31 <.10
23 23 SEP	1220 1225	ENVIRONMENTAL BLANK		44	7.4	92 	8.1	415	24.8				
17 17	1200 1201	ENVIRONMENTAL BLANK		7.8	6.4	77 	8.0	455 	23.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 27 27	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
NOV 27 27 JAN 08	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 27 27 JAN 08 08 MAR 19	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  217 195	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  218 197	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.02 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 E.05	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .15 <.05
NOV 27 27 JAN 08 08 MAR 19 19 MAY 22	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  217 195 148	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  218 197 148	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 265  240  180	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <17	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.02 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 E.05 <.10 .32	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .15 <.05 .48 <.05
NOV 27 27 JAN 08 08 MAR 19 19 MAY 22	DIS- SOLVED (mg/L as Na) (00930) 2.22    2.00	WATER UNFLIRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  217 195 148 183	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  218 197 148 184	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 265  240  180  225	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940) 6.37    3.96	RIDE, DIS- SOLVED (mg/L as F) (00950) <.1     <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 6.4    4.4	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) 232 <10   197	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 E.02 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 E.05 <.10 .32 <.10 E.07	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .15 <.05 .48 <.05 .17 <.05

# 07053900 SWAN CREEK NEAR SWAN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
NOV 27 27	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	K3 	52 	160 	5 	13	E.1 <.2	<.04 <.04	<.1 <.1	<6 <6
JAN 08 08 MAR	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	K1 	K9 	K9 						
19 19 MAY	<.008 <.008	<.06 <.06	<.02 <.02	E.04 <.06	570 	K1480 	907 						
22 22 JUL	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	K10 	31 	98 	5 <1	16 <2	E.1 <.2	<.04 <.04	<.1 .5	<6 <6
23 23 SEP	E.004 <.008	<.06 <.06	<.02 <.02	<.06 <.06	160 	29 	315 						
17 17	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	K98 	21	73 						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	NOV 2	7	<10	<.08	<1	E3.1	<.01	<.3		5			
	JAN	7 8	<10	E.05	<1	<2.0	<.01	<.3		3			
		8											
		9 9											
	2	2	E5 <10	E.04 <.08	M <1	3.2 <2.0	<.01 <.01	<.3 <.3	 <1	2 <1			
	2	3											
	1	7 7											

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

# 07054080 BEAVER CREEK AT BRADLEYVILLE, MO

LOCATION.--Lat  $36^\circ46^\circ47^\circ$ , long  $92^\circ54^\circ25^\circ$ , in NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.11, T.24 N., R.18 W., Taney County, Hydrologic Unit 11010003, on downstream side of right bridge pier on State Highway 76 and 0.5 mi east of Bradleyville.

DRAINAGE AREA.--298 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 803.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, and those above 3,000  ${\rm ft}^3/{\rm s}$ , which are fair. U.S.G.S. satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	23 23 23 23 23 31	23 29 32 30 29	189 152 115 93 78	140 129 123 118 113	3080 1100 750 582 480	148 254 472 391 357	313 282 253 229 213	594 603 504 467 432	265 241 219 203 224	e75 72 80 73 69	46 44 43 42 40	39 38 36 35 34
6 7 8 9	34 32 28 27 35	28 27 27 27 26	69 61 55 49 45	111 105 101 98 96	420 372 330 296 262	363 356 334 330 325	199 297 7420 1980 1160	617 605 11800 4810 2340	231 200 179 168 166	65 62 59 56 54	40 43 40 38 37	33 32 32 31 31
11 12 13 14 15	50 45 40 36 33	25 25 25 25 25 24	42 261 641 400 279	92 88 86 84 82	234 217 199 184 174	312 305 281 264 298	839 695 734 1380 790	1450 1310 3560 1460 1040	163 186 257 231 184	53 84 75 63 57	38 37 546 271 159	31 31 30 31 33
16 17 18 19 20	31 29 28 27 26	24 24 24 32 31	4910 8090 2070 1030 692	79 78 76 79 75	164 154 146 174 263	416 396 358 1470 2340	661 707 610 569 1130	839 5090 2640 1420 1000	158 142 130 120 112	57 55 426 254 131	112 91 82 71 64	33 35 36 39 47
21 22 23 24 25	25 24 24 24 24	29 26 29 294 226	550 460 384 324 275	74 73 137 496 398	278 242 220 204 189	1150 775 629 548 649	2060 837 656 591 538	773 653 575 535 494	e106 e102 e97 e94 e105	101 82 84 76 68	59 54 53 58 64	41 35 33 32 31
26 27 28 29 30 31	23 22 22 22 23 23	133 92 81 85 166	243 219 199 181 163 151	332 279 245 219 203 2540	174 161 151 	648 547 488 444 393 350	472 462 459 418 538	434 391 362 343 317 290	e95 e88 e84 e79 e77	61 58 53 50 50	55 51 48 45 43 41	31 31 31 31 30
MEAN MAX MIN	28.4 50 22	56.6 294 23	725 8090 42	224 2540 73	400 3080 146	529 2340 148	916 7420 199	1540 11800 290	157 265 77	85.5 426 48	79.2 546 37	33.8 47 30
STATIST	CICS OF MO	NTHLY MEA	N DATA FO	R WATER Y	EARS 1994	- 2002,	BY WATER	YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	55.9 134 1999 25.9 2001	264 1074 1997 28.4 2000	236 725 2002 62.7 2000	325 919 1995 56.8 2000	538 991 1999 105 2000	540 1349 1998 142 2000	537 935 1995 70.9 2000	543 1540 2002 37.8 2000	195 593 1995 41.1 2001	81.0 168 1995 49.7 1997	65.6 168 1995 22.5 2001	82.4 309 1996 22.5 2001
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEA	R	FOR 2002	WATER YEA	AR.	WATER YEA	ARS 1994	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY I PEAK STA ANEOUS LO SENT EXCEE SENT EXCEE	AN AN N MINIMUM W GE W FLOW DS		8090 15 17  326 58 23	Dec 1 Sep Sep	7	399  11800 22 23 20800 17.92 22 Oct 718 120 29	May Oct 27-2 Oct 2 May May 3,4,26-3	29 26 8 8	287 464 62.5 11800 15 17 20800 17.92 14 650 100 30	Sep Sep May May	1995 2000 8 2002 7 2001 1 2001 8 2002 8 2002 7 2001

e Estimated

# 07057500 NORTH FORK RIVER NEAR TECUMSEH, MO

LOCATION.--Lat  $36^{\circ}37^{\circ}22^{\circ}$ , long  $92^{\circ}14^{\circ}53^{\circ}$ , in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.35, T.23 N., R.12 W., Ozark County, Hydrologic Unit 11010006, on right bank 3.2 mi downstream from Spring Creek, 3.5 mi northeast of Tecumseh.

DRAINAGE AREA.--561 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 584.67 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to May 12, 1945, nonrecording gage at same site and datum 0.22 ft lower.

REMARKS.--Water-discharge records good. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHARG	E, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	262	429	402	3530	466	1090	1170	1010	510	473	422
2	271	265	424	389	1930	485	1040	1130	967	516	470	416
3	271	265	382	380	1360	523	966	1060	928	504	460	413
4	269	262	357	373	1080	581	900	1000	895	497	455	407
5	277	260	341	372	908	e555	856	948	915	499	445	400
6 7 8 9 10	274 271 268 265 279	257 256 251 250 247	341 329 319 308 302	369 361 354 348 348	814 754 700 653 623	e525 e505 e480 2480 2440	879 5790	940 996 22500 7880 4540	917 854 811 834 911	489 475 475 468 469	447 453 434 427 421	394 392 390 387 383
11	305	247	298	343	588	1740	2070	3120	1100	478	418	378
12	301	244	307	339	556	1490	1770	2550	998	494	419	374
13	301	242	339	335	536	1330	1720	6720	902	484	1520	372
14	291	242	376	330	515	1200	4820	3690	831	494	1510	369
15	281	242	412	327	499	1090	3090	2750	781	482	903	368
16	278	242	611	322	484	1080	2290	2280	746	469	732	364
17	277	242	2990	322	470	1100	2020	4790	716	469	641	369
18	270	241	2130	322	459	1030	1880	4790	695	632	586	369
19	269	242	1310	323	471	1970	1670	3220	675	839	550	370
20	269	239	975	318	557	6330	1520	2550	651	745	523	405
21	269	238	804	312	670	3500	2400	2140	632	660	495	405
22	268	238	708	307	636	2420	1810	1860	613	581	476	394
23	269	238	638	309	593	1950	1500	1680	597	582	463	378
24	277	282	582	414	564	1690	1360	1540	584	632	473	367
25	272	353	539	596	545	1660	1270	1440	581	562	484	362
26 27 28 29 30 31	269 269 267 266 264 260	376 336 334 350 376	506 480 462 443 427 413	573 526 489 461 436 749	524 495 476 	1850 1690 1550 1440 1300 1180	1170 1110 1090 1060 1080	1330 1250 1200 1150 1100 1060	565 549 542 536 528	528 510 492 483 486 474	533 496 468 452 438 431	358 361 355 350 348
MEAN	274	271	622	392	785	1536	1858	3044	762	532	564	381
MAX	305	376	2990	749	3530	6330	5790	22500	1100	839	1520	422
MIN	260	238	298	307	459	466	816	940	528	468	418	348
IN.	0.56	0.54	1.28	0.81	1.46	3.16	3.70	6.26	1.52	1.09	1.16	0.76
MEAN	410	648	703	720	861	1073	1252	1150	758	537	414	422
MAX	1040	2751	2842	2322	2872	2473	3623	3044	2515	1632	889	2093
(WY)	1985	1986	1983	1950	1985	1945	1945	2002	1945	1951	1958	1993
MIN	214	224	223	201	261	290	359	343	276	239	204	193
(WY)	1957	1955	1956	1956	1964	1981	2000	2001	1954	1954	1954	1954
SUMMARY	STATISTIC	CS	FOR 2	001 CALENI	DAR YEAR	F	OR 2002 WAT	TER YEAR		WATER YE	ARS 1945	- 2002
LOWEST ANIGHEST LOWEST DANNUAL SMAXIMUM MAXIMUM INSTANTI ANNUAL DO PERCE SO PERCE	ANNUAL MI ANNUAL MEA DAILY MEA DAILY MEAN	AN AN N MINIMUM W SE W FLOW NCHES) DS		416  4590 238 No 240 10.06 577 322 269	Feb 25 ov 21-23 Nov 17		921  22500 238 No. 240 55700 22.30 238 No. 22.28 1850 495 269	May 8 DV 21-23 NOV 17 May 8 May 8 DV 18-23		744 1555 299 45100 187 188 133000 28.10 187 18.03 1340 499 291	Nov 19 Sep 19 Sep 19 Nov 19 Sep 19	5 1954 2 1954 9 1985 9 1985

e Estimated

# 07057500 NORTH FORK RIVER NEAR TECUMSEH, MO--Continued (Ambient Water-Quality Monitoring Network)

# WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to June 1972, October 1978 to September 1979, November 1983 to June 1987, November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 26	1515	ENVIRONM	ENTAL	367	10.4	100	7.8	391	12.1	220	45.5	25.7	.63
JAN 07	1455	ENVIRONM	ENTAL	358	14.1	121	7.5	353	8.2				
MAR 20	1345	ENVIRONM	ENTAL	6740	9.8	91	7.8	168	11.4				
MAY 21	1400	ENVIRONM	ENTAL	2090	9.6	98	7.8	245	15.7	130	26.8	14.7	.65
JUL 23	0900	ENVIRONM	ENTAL	589	7.4	83	7.8	362	19.0				
SEP 16	1430	ENVIRONM	ENTAL	364	11.4	125	7.8	388	19.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 26	1.64	207	208	254	0	6.59	.1	4.5	<10	212	. 09	E.08	. 28
JAN 07		161	163	198	0				<10		<.04	E.08	1.48
MAR 20		77	77	93	0				104		<.04	.81	.51
MAY 21	2.04	109	111	136	0	8.29	<.1	3.0	<10	135	<.04	.10	. 26
JUL 23		186	188	229	0				<10		<.04	E.10	.79
SEP 16		196	199	242	0				<10		<.04	.10	.62
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
NOV 26	<.008	<.06	<.02	<.06	К3	33	50	8	17	. 4	<.04	- 1	<6
JAN 07	<.008	<.06	<.02	<.06	K3 <1		K2	0	±/	.4	<.04	<.1	
MAR 20	.010	.07	.04	.17	K1200	4900	5000						
MAY 21	E.005	<.06	<.02	<.06	K40	K233	123	38	76	<.2	<.04	<.1	<6
JUL 23	E.006	<.06	<.02	<.06	140	413	1380						
SEP 16	<.008	<.06	<.02	<.06	K3	K14	K7						

# 07057500 NORTH FORK RIVER NEAR TECUMSEH, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
26	<10	<.08	<1	E1.2	<.01	<.3	4	4
JAN								
07								
MAR								
20								
MAY								
21	41	.28	1	7.6	<.01	<.3		3
JUL								
23								
SEP								
16								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 07057750 BRYANT CREEK BELOW EVANS, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°52'16", long 92°28'18", in SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.10, T.25 N., R.14 W., Douglas County, Hydrologic Unit 11010006, 13 mi south of Ava, 12 mi west of Highway 95 and Highway 14 intersection, on Highway 14.

DRAINAGE AREA.--214 mi<sup>2</sup>.

PERIOD OF RECORD. -- November 1993 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 27	1350	ENVIRONM	ENTAL	50	11.2	103	7.8	401	10.6	230	47.8	26.4	1.37
JAN 08	1220	ENVIRONM	ENTAL	49	12.4	99	7.5	402	4.5				
MAR 20	1020	ENVIRONM	ENTAL	1000	10.8	98	7.9	275	10.0				
MAY 21	1627	ENVIRONM	ENTAL	4500	10.0	106	7.8	297	17.0	160	33.9	17.6	.42
JUL 22	1525	ENVIRONM	ENTAL	50	10.6	136	8.2	394	26.1				
SEP 17	0920	ENVIRONM	ENTAL	40	6.4	74	7.8	417	20.8				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 27 JAN	2.27	211	214	261	0	6.45	<.1	4.9	<10	200	<.04	.10	.64
08 MAR		192	195	238	0				10		<.04	E.06	.95
20 MAY		135	135	165	0				22		<.04	.28	.37
21 JUL	2.18	147	148	181	0	3.72	<.1	3.8	10	161	<.04	E.09	.33
22 SEP		199	198	242	0				<10		<.04	.10	. 29
17		217	219	267	0				<10		<.04	.10	. 45
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
NOV 27	E.005	<.06	<.02	<.06	63	59	120	8	36	. 4	<.04	<.1	<6
JAN 08	E.005	<.06	<.02 E.01	<.06	<1	K3	120 K7	8	36	.4	<.04	<.1	< b
MAR 20	E.007	E.04	<.02	E.05	K42	600	528						
MAY 21	E.004	<.06	<.02	E.03	K50	125	240	24	95	.2	<.04	<.1	<6
JUL 22	E.005	<.06	<.02	<.06	K50	26	41			. 2			
SEP 17	<.008	<.06	<.02	<.06	360	480	940						

# 07057750 BRYANT CREEK BELOW EVANS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
27	<10	<.08	<1	4.7	<.01	<.3	1	4
JAN								
08								
MAR								
20								
MAY								
21	19	.17	<1	13.5	<.01	<.3		2
JUL								
22								
SEP								
17								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 07058000 BRYANT CREEK NEAR TECUMSEH, MO

LOCATION.--Lat 36°37'33", long 92°18'16", in E  $\frac{1}{2}$  sec.32, T.23 N., R.12 W., Ozark County, Hydrologic Unit 11010006, on left bank 0.8 mi downstream from Pine Creek, 3 mi northwest of Tecumseh, and 5 mi upstream from mouth.

DRAINAGE AREA. -- 570 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1944 to September 1985, October 1994 to September 1996, October 1998 to current year.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1441: 1945, 1946-47(M), 1950. WSP 1731: 1945-47, 1950.

GAGE.--Water-stage recorder. Datum of gage 573.15 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 30, 1945, nonrecording gage at same site and datum.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER	R SECOND, W			ER 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	125	239	228	3670	252	668	1110	1150	265	223	178
2	118	131	218	213	1560	279	617	1030	1070	272	206	175
3	117	133	199	206	1090	313	558	934	954	283	200	174
4	117	130	193	197	870	328	506	865	887	272	196	171
5	123	129	182	193	733	340	488	805	889	260	187	168
6	129	127	188	197	623	347	459	800	826	252	274	165
7	129	125	181	189	555	357	665	927	688	246	277	164
8	123	124	175	190	490	366	7150	19300	615	245	207	165
9	121	124	165	184	445	1770	3800	9180	602	233	192	161
10	128	124	159	181	410	1190	2090	4310	632	233	187	160
11	157	123	154	175	378	917	1580	2790	621	246	185	160
12	154	122	161	177	e345	827	1370	2210	568	260	184	161
13	152	122	185	166	e325	744	1290	7220	637	338	2770	159
14	142	122	266	162	e305	687	2830	3440	605	323	1450	157
15	133	122	280	167	285	638	2020	2450	518	274	750	159
16	131	124	736	164	271	655	1540	2020	477	254	520	161
17	129	124	5500	162	259	640	1670	5940	444	243	388	172
18	133	124	2460	156	249	612	1500	7070	414	294	338	176
19	131	128	1340	166	273	1860	1280	3520	426	302	296	180
20	129	127	923	169	359	4440	1220	2570	399	293	275	213
21	129	124	716	166	363	2460	3650	2070	379	288	250	220
22	131	125	599	163	343	1630	1840	1780	357	263	232	202
23	131	126	516	166	325	1310	1360	1630	339	258	222	173
24	131	209	443	280	314	1160	1170	1530	329	248	228	166
25	129	401	400	433	303	1280	1050	1480	320	233	228	162
26 27 28 29 30 31	126 124 122 121 125 124	247 204 e170 e180 221	374 339 307 292 256 245	360 323 296 277 258 1010	287 267 256 	1290 1140 1010 928 824 729	948 890 871 827 871	1380 1330 1310 1280 1310 1230	312 304 296 291 278	222 219 213 206 214 220	208 202 192 189 184 181	160 159 159 158 159
MEAN	129	151	593	238	570	1010	1559	3059	554	257	375	170
MAX	157	401	5500	1010	3670	4440	7150	19300	1150	338	2770	220
MIN	111	122	154	156	249	252	459	800	278	206	181	157
IN.	0.26	0.29	1.20	0.48	1.04	2.04	3.05	6.19	1.09	0.52	0.76	0.33
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR PERIOD	OF RECORD,	BY W	ATER YEAR	(WY)				
MEAN	234	403	508	498	634	843	954	901	513	343	229	228
MAX	893	1664	4280	2350	2129	2483	3497	3059	1990	1748	910	654
(WY)	1971	1952	1983	1950	1985	1945	1945	2002	1945	1951	1950	1996
MIN	112	127	119	112	141	138	178	175	118	110	105	103
(WY)	1957	1955	1956	1956	1981	1981	1981	1954	1954	1954	1954	1954
SUMMARY	STATISTI	CS	FOR 2	2001 CALEN	IDAR YEAR		FOR 2002	WATER YEAR		FOR P	ERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME DAILY MEA SEVEN-DAY I PEAK FLO I PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN AN MINIMUM W GE W FLOW NCHES)		5500 111 118  6.30 401 165 125	Dec 17 Oct 1 Sep 29		725  19300 111 121 46500 22.94 111 17.26 1530 274 129	May 8 Oct 1 Oct 1 May 8 May 8 Oct 1		523 1229 149 52000 97 99 71100 26.74 96 12.47 1040 261	Aug Sep Dec Dec	1985 1954 3 1982 18 1954 13 1954 3 1982 3 1982 17 1954

e Estimated

# 07061150 WEST FORK BLACK RIVER AT CENTERVILLE, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°26'44", long 90°57'45", in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  SEC  $\frac{1}{4}$  sec.20, T.32 N., R.1 E., Reynolds County, Hydrologic Unit 11010007, approximately 1.0 mi north of Centerville on State Highway 72.

DRAINAGE AREA.--137 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1999 to current year.

DATE	TIME	SAMPLE TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 14	1100	ENVIRONM	ENTAL	35	10.3	100	7.3	374	13.2	190	37.5	23.2	.79
JAN 22	1340	ENVIRONM	ENTAL	48	12.9	107	7.5	331	6.3				
MAR 07	0855	ENVIRONM	ENTAL	133	11.7	99	7.7	270	7.0				
MAY 15	1405	ENVIRONM	ENTAL	806	8.9	95	7.9	164	17.4	82	17.1	9.44	1.01
JUL 16	1130	ENVIRONM	ENTAL	63	8.7	106	8.0	363	24.2				
SEP 03	1450	ENVIRONM	ENTAL	36	8.6	111	7.8	380	26.8				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 14 JAN	6.18	147	150	183	0	17.5	E.1	32.3	138	210	<.04	<.10	E.03
22 MAR		134	135	165	0				<10		<.04	E.08	.19
07 MAY		112	112	136	0				<10		<.04	<.10	.14
JUL	1.57	77	77	94	0	1.57	<.1	8.1	<10	97	<.04	.10	.05
16 SEP		144	146	178	0				<10		<.04	<.10	.08
03		138	140	170	0				<10		<.04	<.10	. 05
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV		6.5				-		_		_		_	
14 JAN	<.008	<.06	<.02	<.06	67	20	K3	9	10	.2	<.04	<.1	<6
22 MAR	<.008	<.06	<.02	<.06	<1	K1	K1						
07 MAY	<.008	<.06	<.02	<.06	<1	K1	K2						
JUL	E.006	<.06	<.02	<.06	K4	K33	K50	64	121	.2	E.02	<.1	<6
16 SEP	<.008	<.06	<.02	<.06	K4	K9	K9						
03	<.008	<.06	<.02	<.06	K2	K8	K13						

# 07061150 WEST FORK BLACK RIVER AT CENTERVILLE, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe)	LEAD, DIS- SOLVED (µg/L as Pb)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb)	MANGA- NESE, DIS- SOLVED (µg/L as Mn)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg)	SELE- NIUM, DIS- SOLVED (µg/L as Zn)	ZINC, DIS- SOLVED (µg/L as Zn)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn)
	(01046)	(01049)	(01051)	(01056)	(71900)	(01090)	(01090)	(01092)
NOV								
14	<10	E.05	<1	<2.0	<.01	E.2	16	11
JAN	-10	2.05		-2.0		2.2		
22								
MAR								
07								
MAY								
15	40	1.22	<1	12.2	<.01	<.3	2	25
JUL								
16								
SEP								
0.3								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 07061260 EAST FORK BLACK RIVER NEAR IRONTON, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°36'14", long 90°47'19", in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.35, T.34 N., R.2 E., Iron County, Hydrologic Unit 11010007, approximately 6.0 mi southwest of State Highway 21 on State Highway N.

DRAINAGE AREA.--16 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 14	0915	ENVIRONM	ENTAL	2.7	7.3	65	7.5	305	9.1	160	33.7	19.4	.68
JAN 22	1515	ENVIRONM	ENTAL	2.7	12.7	102	7.8	243	4.9				
MAR 06	1600	ENVIRONM	ENTAL	11	12.0	109	7.5	131	9.9				
MAY 15	0900	ENVIRONM	ENTAL	135	9.1	91	7.5	92	14.2	41	8.69	4.75	1.13
JUL 16	1410	ENVIRONM	ENTAL	29	8.6	106	7.5	144	24.5				
SEP 03	1715	ENVIRONM	ENTAL	3.9	6.7	87	7.3	180	26.7				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 14	2.69	147	150	183	0	10.2	<.1	5.9	<10	170	<.04	E.05	<.05
JAN 22		118	118	144	0				<10		<.04	E.05	E.03
MAR 06		51	50	62	0				<10		<.04	.14	E.03
MAY 15	1.35	43	43	52	0	1.52	<.1	6.5	<10	57	<.04	E.10	<.05
JUL 16		71	71	87	0				<10		.05	.13	.05
SEP 03		81	83	101	0				<10		<.04	.10	.08
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
NOV	. 000	. 06	. 00	. 05	.1	***0	***0	-	1.4	2	. 04	. 1	
14 JAN	<.008	<.06	<.02	<.06	<1	K2	K9	7	14	.3	<.04	<.1	<6
22 MAR	<.008	<.06	<.02	<.06	<1	K1	K3						
06 MAY	<.008	<.06	<.02	<.06	<1	K1	<1 160	 59	104	 E.2			
15 JUL	<.008	<.06	<.02	E.04	K20	K55	160	צכ	184	Ľ.∠	<.04	<.1	<6
16 SEP 03	<.008	<.06 <.06	.02	<.06 <.06	K3 K6	42 K1	K8 76						
03			1.02		100	141	, 0						

# 07061260 EAST FORK BLACK RIVER NEAR IRONTON, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
14	E9	<.08	<1	13.2	<.01	E.2	3	4
JAN								
22								
MAR								
06								
MAY								
15	40	.18	M	8.0	<.01	<.3	2	2
JUL								
16								
SEP								
0.3								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

# 07061270 EAST FORK BLACK RIVER NEAR LESTERVILLE, MO

LOCATION.--Lat  $37^{\circ}33^{\circ}08^{\circ}$ , long  $90^{\circ}50^{\circ}32^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.9, T.33 N., R.2 E., Reynolds County, Hydrologic Unit 11010007, on bridge on Highway N, approximately 5 miles north of junction of Highways 21 and N, 0.5 mi north of Johnson's Shut In Park entrance.

DRAINAGE AREA. -- 52.2 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for discharges above 5,000  $\mathrm{ft}^3/\mathrm{s}$ , which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum stage 13.32 ft, discharge unknown, May 12; minimum discharge, 1.8 ft<sup>3</sup>/s, Sept. 14.

	D	ISCHARGE	from DCP,	CUBIC FEET		COND, WATE Y MEAN VAL		OCTOBER 200	1 TO SEP	TEMBER 200	)2	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e6.0 6.0 6.0 6.0 7.1	7.5 7.9 7.5 8.5 9.7	91 58 45 37 32	15 14 13 12 11	591 194 121 87 69	41 52 89 77 68	55 50 45 41 36	117 132 110 88 73	29 26 23 21 23	9.2 8.7 11 9.5 8.9	6.5 6.8 6.5 5.5	9.8 9.3 8.4 7.7 7.1
6 7 8 9 10	7.0 6.6 6.6 6.6 7.0	9.6 8.3 6.5 6.0 5.5	39 40 35 30 27	11 10 9.2 9.0 9.0	59 52 47 42 37	63 58 53 1930 339	33 33 480 258 146	67 110 5450 1040 312	22 20 18 20 25	8.4 7.8 7.7 7.3	4.8 4.7 4.4 4.3 4.1	6.6 5.7 4.8 4.4 4.3
11 12 13 14 15	8.8 11 8.6 8.1 7.7	e5.4 e5.1 5.1 5.0 4.8	24 25 30 241 155	8.8 8.5 8.1 8.0 7.9	33 30 27 24 23	202 228 158 119 150	105 91 128 732 254	170 3630 3600 369 179	32 46 44 31 26	23 16 15 13	8.0 6.5 12 12 9.2	3.8 3.5 2.5 2.7 4.0
16 17 18 19 20	8.8 8.0 7.5 7.3 7.1	4.7 4.6 4.6 4.5 4.3	e900 e1100 291 150 97	6.6 6.7 7.4 6.7	21 20 19 227 402	299 169 121 662 693	154 111 89 241 256	160 6080 <sup>a</sup> 500 201 128	24 22 19 18 16	12 12 12 12 11	8.6 8.0 12 14 109	3.3 5.9 9.2 7.0 16
21 22 23 24 25	7.4 7.6 8.8 10	4.3 4.3 4.6 13	73 61 51 43 38	6.8 7.2 9.8 45	171 107 81 67 59	269 160 118 96 142	233 150 111 292 350	100 88 73 58 48	14 13 12 12	11 10 11 9.9 9.9	46 30 25 24 21	19 15 13 11 9.8
26 27 28 29 30 31	9.8 9.4 8.8 8.4 8.0 7.7	12 12 14 32 244	33 29 26 23 20 17	40 33 29 27 29 756	53 47 43 	141 108 91 80 71 62	170 211 684 210 138	42 37 42 46 38 33	10 10 12 9.9 9.5	9.3 9.1 7.8 7.4 7.0 6.8	17 15 14 13 12	9.2 8.3 7.0 6.4 6.1
MEAN MAX MIN	7.86 11 6.0	15.9 244 4.3	124 1100 17	39.3 756 6.6	98.3 591 19	223 1930 41	196 732 33	746 6080 33	20.6 46 9.5	10.7 23 6.8	15.5 109 4.1	7.69 19 2.5

e Estimated Rated poor.

### 07061280 TAUM SAUK CREEK NEAR LESTERVILLE, MO

LOCATION.--Lat 37°32'11", long 90°48'07", in NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.14, T.33 N., R.2 E., Reynolds County, Hydrologic Unit 11010007, approximately 8.5 mi northeast of Lesterville.

DRAINAGE AREA.--10.1 mi<sup>2</sup>.

PERIOD OF RECORD.--Aug. 8, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

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MIN

REMARKS. -- Records poor.

EXTREMES FOR CURRENT YEAR.--For period Aug. 8 to Sept. 30, maximum discharge, 1.7 ft<sup>3</sup>/s, Aug. 8, gage height 1.54 ft; minimum,  $0.02 \text{ ft}^3/\text{s}$ , Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 2 \_\_\_ ---\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ .10 3 ------.09 --5 .08 6 7 ---------------------------------.08 .07 8 ---1.4 .07 ---------------------------------10 .50 .07 ------------------11 ---.07 ---------12 .40 .07 13 .33 .07 ---------------------------14 .06 ---15 .15 .06 16 17 .11 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ .06 ------------------------------.05 18 .10 .06 19 \_\_\_ ---\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ .11 .06 20 .05 21 \_\_\_ ---\_\_\_ ---\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ .11 .05 22 ---.11 .05 .11 .11 24 \_\_\_ ---\_\_\_ ---\_\_\_ \_\_\_ \_\_\_ ---\_\_\_ \_\_\_ .04 25 .04 26 \_\_\_ ---\_\_\_ ---\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ 11 04 27 .11 .03 28 ------.03 \_\_\_ ---\_\_\_ ---\_\_\_ \_\_\_ \_\_\_ 29 \_\_\_ \_\_\_ \_\_\_ .10 03 30 .10 .02 31 ------------------.10 MEAN .06 ---MAX ------------------------.10

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.02 .01

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# 07061280 TAUM SAUK CREEK NEAR LESTERVILLE, MO--Continued

LOCATION.--Lat 37°32'11", long 90°48'07", in NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.14, T.33 N., R.2 E., Reynolds County, Hydrologic Unit 11010007, approximately 8.5 mi northeast of Lesterville.

DRAINAGE AREA.--10.1  $\min^2$ .

PERIOD OF RECORD.--Aug. 8, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS. -- Records poor.

		DISCHA	RGE, CUBIC	C FEET PER		WATER Y Y MEAN V	EAR OCTOBEI ALUES	R 2001 TO	SEPTEMBI	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.03 0.02 0.02 0.01 0.01	0.22 0.25 0.26 0.26 0.24	34 20 14 11 8.2	2.0 1.9 1.8 1.7	132 40 21 14 9.9	5.6 16 27 17 14	7.1 6.4 5.7 5.0 4.3	24 20 16 13 11	1.0 0.83 0.68 0.60 0.62	0.17 0.16 0.17 0.17 0.16	0.19 0.19 0.17 0.16 0.15	0.06 0.04 0.04 0.04 0.04
6 7 8 9 10	0.01 0.01 0.01 0.02 0.03	0.24 0.23 0.22 0.22 0.21	15 19 15 12 9.7	1.6 1.6 1.6 1.6	7.9 6.9 5.9 5.2 4.6	12 10 9.8 589 63	3.8 3.8 163 52 25	11 55 915 198 57	0.65 0.69 0.72 0.79 0.83	0.16 0.16 0.16 0.17 0.20	0.14 0.12 0.11 0.09 0.08	0.04 0.04 0.04 0.04 0.03
11 12 13 14 15	0.07 0.09 0.10 0.12 0.13	0.20 0.20 0.19 0.18 0.17	7.6 7.5 27 114 51	1.7 2.1 2.2 2.1 2.1	4.0 3.5 3.2 2.9 2.6	41 57 31 22 17	16 32 63 212 50	31 862 410 70 37	0.78 0.73 0.68 0.59 0.48	0.20 0.23 0.25 0.26 0.27	0.14 0.09 0.18 0.18 0.22	0.03 0.03 0.02 0.03 0.03
16 17 18 19 20	0.15 0.13 0.13 0.13 0.13	0.16 0.16 0.15 0.15 0.14	331 270 58 27 15	2.0 1.9 1.9 1.9	2.5 2.3 2.2 102 96	24 18 15 150 132	27 19 15 43 54	191 871 85 31 16	0.40 0.32 0.27 0.26 0.25	0.28 0.31 0.32 0.33 0.35	0.22 0.24 0.28 0.30	0.03 0.03 0.03 0.04 0.07
21 22 23 24 25	0.12 0.12 0.16 0.14 0.16	0.13 0.13 0.13 4.0	11 8.3 7.1 5.8 4.8	1.9 2.7 7.7 41 21	32 17 12 9.0 7.4	41 22 16 13 22	38 28 19 36 41	11 7.5 5.4 4.0 3.0	0.24 0.23 0.23 0.22 0.21	0.36 0.36 0.37 0.36 0.33	8.2 4.3 2.7 2.4 1.6	4.7 3.7 2.5 1.8 1.2
26 27 28 29 30 31	0.17 0.18 0.20 0.18 0.19	8.3 5.8 6.7 67 113	4.0 3.5 3.0 2.6 2.4 2.2	13 9.8 7.7 6.5 6.5 270	7.3 6.4 5.9 	22 17 13 12 9.7 8.3	24 34 55 29 20	2.3 1.7 1.5 1.4 1.3	0.21 0.20 0.19 0.19 0.18	0.30 0.30 0.27 0.25 0.23	1.2 0.91 0.63 0.42 0.25 0.13	0.91 0.61 0.37 0.19 0.10
MEAN MAX MIN IN.	0.10 0.20 0.01 0.01	7.34 113 0.13 0.81	36.2 331 2.2 4.13	13.0 270 1.6 1.56	20.2 132 2.2 2.08	47.3 589 5.6 5.40	37.7 212 3.8 4.17	128 915 1.1 14.6	0.48 1.0 0.18 0.05	0.25 0.37 0.16 0.03	2.03 37 0.08 0.23	0.56 4.7 0.02 0.06
SUMMARY	STATIST	TICS			FOR 2	002 WATE	R YEAR			WATER Y	EARS 2001	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC	' ANNUAL ANNUAL N ' DAILY N DAILY ME	MEAN MEAN EAN AY MINIMUM LOW FAGE LOW FLOW (INCHES) EEDS	ı		9. 0. 89. 0. 33.	01 0 01 70 1 99 1	May 8 ct 4-8 Oct 2 May 12 May 12 ct 4,5			24.6 24.7 24.7 915 0.01 0.01 8970 9.99 0.01 Man 33.16 41 1.9 0.10	Oct 4- Oct May 1	2 2001 2 2002 2 2002

# 07061500 BLACK RIVER NEAR ANNAPOLIS, MO

LOCATION.--Lat  $37^{\circ}20^{\circ}10^{\circ}$ , long  $90^{\circ}47^{\circ}19^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.25, T.31 N., R.2 E., Reynolds County, Hydrologic Unit 11010007, on right bank 0.4 mi downstream from Mayberry Branch, 7 mi southwest of Annapolis, 11 mi downstream from East Fork Black River, and at mile 278.5.

DRAINAGE AREA. -- 484 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 569.72 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to Aug. 21, 1942, at site 415 ft upstream at same datum.

REMARKS.--Records good. Flow slightly regulated by upstream reservoir since February 1963. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	171	953	220	5730	360	544	811	487	181	161	162
2	110	160	518	208	2850	407	483	898	441	176	154	158
3	122	154	507	202	1530	481	487	683	406	173	153	154
4	110	150	451	203	1090	607	441	705	379	176	148	155
5	108	147	356	199	737	591	406	615	387	187	144	162
6	108	145	370	202	645	509	376	620	404	186	140	164
7	111	143	381	199	628	542	369	693	374	182	136	156
8	113	141	336	196	503	460	1890	24400	333	180	133	147
9	125	139	300	192	437	7060	2640	12900	337	179	130	143
10	137	136	286	185	386	5730	1620	5570	378	174	129	140
11	154	133	347	184	399	2790	1180	3010	375	181	145	138
12	178	132	281	184	387	1870	1010	2400	396	233	151	137
13	188	131	307	179	316	1760	1620	34100	414	273	181	135
14	172	131	580	175	300	1310	2940	6580	456	262	271	136
15	157	129	1160	169	285	1130	2320	2930	333	244	295	140
16	151	129	1720	161	269	1350	1550	1820	306	217	259	140
17	144	129	9530	157	256	1270	1190	25000	286	200	236	150
18	141	128	4780	157	247	1270	1010	9800	276	193	223	162
19	137	127	2390	167	312	1680	987	3370	268	190	231	182
20	132	125	1260	168	1490	6680	1920	2170	258	190	254	238
21	130	125	905	164	1190	3380	1890	1740	240	187	343	236
22	128	139	753	164	847	1880	1690	1590	225	178	354	228
23	134	146	634	178	731	1360	1290	1080	217	211	289	210
24	209	192	478	225	638	1120	1300	819	210	221	252	187
25	207	206	412	348	480	1170	1820	733	210	198	236	261
26 27 28 29 30 31	204 190 176 166 159 166	213 203 202 263 1070	448 429 318 275 253 235	360 334 438 402 329 1080	433 421 416 	1180 1070 888 834 789 754	1360 1130 1710 1380 876	654 614 669 676 626 565	204 200 203 195 188	184 182 190 170 166 163	225 205 182 172 174 169	423 271 202 177 168
MEAN MAX MIN IN.	147 209 99 0.35	185 1070 125 0.43	1031 9530 235 2.46	249 1080 157 0.59	856 5730 247 1.84	1687 7060 360 4.02	1314 2940 369 3.03	4801 34100 565 11.4 YEAR (WY)	313 487 188 0.72	194 273 163 0.46	202 354 129 0.48	182 423 135 0.42
MEAN	263	645	676	601	749	1004	1159	927	509	292	209	226
MAX	1151	3619	3913	2509	2091	2903	3467	4801	4263	1800	1289	1061
(WY)	1942	1986	1983	1950	1985	1945	1957	2002	1945	1951	1982	1993
MIN	84.8	111	119	108	147	161	228	165	140	88.5	76.7	72.4
(WY)	1957	1965	1956	1956	1963	1941	2000	2000	1972	1954	1965	1955
SUMMARY	STATISTI	ics	FOR 2	2001 CALEN	IDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	ARS 1939	- 2002
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM INSTANTA ANNUAL F 10 PERCE 50 PERCE	ANNUAL M ANNUAL ME DAILY ME DAILY MEA	EAN EAN AN MINIMUM AGE DW FLOW ENCHES) EDS		9530 99 103   10.20 651 195 114	Dec 17 Oct 1 Sep 25		936 34100 99 110 59800 21.40 97 26.24 1700 263 139	May 13 Oct 1 Oct 1 May 13 May 13 Oct 1		605 1420 235 47900 66 67 109000 27.38 65 16.98 1160 277 119	Sep : Aug : Nov : Nov :	1985 2000 14 1993 15 1954 12 1965 14 1993 14 1993 16 1965

# 07061600 BLACK RIVER BELOW ANNAPOLIS, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°19'30", long 90°45'50", in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.3, T.31 N., R.31 E., Reynolds County, Hydrologic Unit 11010007, approximately 4.5 mi southwest of Annapolis at the bridge on County Highway K.

DRAINAGE AREA.--493 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1993 to September 1995, November 1999 to current year.

DATE	TIME	SAMPL: TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 13	1125	ENVIRONM	ENTAL	114	10.6	98	7.7	312	11.2	170	33.1	20.4	.29
JAN 23	1300	ENVIRONM	ENTAL	161	12.0	105	7.8	275	8.4				
MAR 06	1125	ENVIRONM	ENTAL	516	11.4	95	7.7	233	7.2				
MAY 14	1505	ENVIRONM	ENTAL	6630	8.8	91	7.3	109	16.3	54	11.6	6.10	.42
JUL 15	1250	ENVIRONM	ENTAL	433	8.0	98	7.7	265	24.5				
SEP 05	1030	ENVIRONM	ENTAL	300	7.2	88	7.7	296	24.4				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )(00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 13	3.77	139	140	171	0	5.20	.2	20.3	12	148	<.04	<.10	.06
JAN 23		112	112	137	0				<10		<.04	<.10	. 23
MAR 06		88	89	109	0				<10		<.04	<.10	.17
MAY 14	2.11	47	47	57	0	1.67	<.1	10.5	36	87	<.04	.31	.08
JUL 15		130	132	161	0				<40		<.04	<.10	.08
SEP					0								
05		127	128	156	U				<10		<.04	E.06	.06
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
NOV			0.5					_	_			_	
13 JAN	<.008	<.06	<.02	<.06	K1	K5	K1	7	9	E.1	<.04	<.1	<6
23 MAR	<.008	<.06	<.02	<.06	<1	<1	K3						
06 MAY	<.008	<.06	<.02	<.06	<1	K2	<1						
14 JUL	E.004	<.06	<.02	E.06	K70	197	447	146	791	.3	E.03	<.1	<6
15 SEP	<.008	<.06	<.02	<.06	K1	K13	К6						
05	<.008	<.06	<.02	<.06	K4	K8	K16						

# 07061600 BLACK RIVER BELOW ANNAPOLIS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
13	<10	<.08	<1	E2.1	<.01	E.2		1
JAN								
23								
MAR								
06								
MAY								
14	131	2.69	12	14.4	E.01	E.2		13
JUL								
15								
SEP								
05								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 07061900 LOGAN CREEK AT ELLINGTON, MO

LOCATION.--Lat 37°14'47", long 90°57'55", in SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  NE  $\frac{1}{4}$ , sec.32, T.30 N., R.1 E., Reynolds County, Hydrologic Unit 11010007, on downstream end of center pier of bridge on State Route 21, 0.1 mi downstream from Dry Valley Creek, and about 10 mi upstream from Clearwater Lake.

DRAINAGE AREA. -- 139 mi<sup>2</sup>.

PERIOD OF RECORD. -- July 21, 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 639.51 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

	-	DISCHA	RGE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.62 0.60 0.47 0.42 0.50	e1.7 e1.6 e1.5 e1.5	1.8 1.7 1.7 2.1 2.2	10 7.7 6.0 5.2 5.7	175 45 29 26 23	8.4 12 11 9.6 8.8	28 25 21 18 16	75 48 36 30 24	e33 e30 28 24 29	8.9 9.3 8.7 8.3 8.1	4.2 3.6 3.3 3.2 3.2	4.5 4.4 4.3 4.2 4.1
6 7 8 9 10	0.52 e0.53 0.52 0.51 e0.49	e1.3 e1.2 e1.2 e1.2		5.7 5.7 6.6 6.1 6.5	22 20 18 17 16	8.3 9.1 9.6 845 166	15 21 260 103 56	24 44 4550 1760 963	23 19 17 26 29	7.6 7.2 7.0 6.6	3.1 3.1 3.0 2.8 2.8	3.9 3.8 3.6 3.6
11 12 13 14 15	0.67 0.73 0.81 e0.73 e0.70	e1.1 e1.0 e0.99 e0.94 e0.90	2.5 2.9 3.3 5.4 4.3	5.1 4.7 5.7 5.3 5.9	14 12 12 12 12	58 50 37 32 32	43 39 38 47 40	483 505 3510 1270 554	23 22 21 18 17	10 8.6 8.1 7.6 7.3	3.9 3.3 5.4 4.6 4.2	3.4 3.3 3.4 3.1
16 17 18 19 20	e0.69 e0.67 e0.65 e0.63 e0.65	e0.86 e0.83 e0.82 e0.85 e0.99	33 1050 145 62 47	5.7 5.5 5.4 5.8 5.3	11 9.7 8.4 13 15	33 28 24 78 478	37 34 27 27 30	412 7970 1900 654 300	17 16 16 15 14	7.1 6.7 7.2 6.8 6.1	3.9 3.9 3.9 4.1 4.1	3.2 3.0 3.2 3.4 4.8
21 22 23 24 25	e0.72 e0.82 e0.92 e2.3 e3.8	1.3 1.3 1.4 2.2	31 24 19 19	5.2 4.9 5.9 8.6 7.7	12 11 10 9.6 9.9	168 82 64 46 68	36 29 27 403 127	e155 e102 e83 e66 e58	13 12 12 11 10	5.4 5.6	3.9 3.6 5.2 9.0 5.6	3.6 3.0 2.8 2.9 3.0
26 27 28 29 30 31	e3.0 e2.6 e2.3 e2.1 e1.9 e1.8	1.4 1.3 1.6 1.8 1.9	12 14 14 14 12 7.1	7.0 6.5 6.3 6.5 6.5	9.9 9.5 9.1 8.9 	69 51 45 40 35	83 68 68 40 60	e52 e46 e44 e41 e38 e35	11 11 14 11 9.6	4.5 4.3 4.4 4.1 4.8 4.2	5.2 5.3 5.1 5.0 4.8 4.7	3.0 3.0 2.8 2.9 2.4
MEAN MAX MIN	1.11 3.8 0.42	1.29 2.2 0.82	50.2 1050 1.7	8.89 91 4.7	21.1 175 8.4	85.1 845 8.3	62.2 403 15	833 7970 24	18.4 33 9.6	6.82 12 4.1	4.23 9.0 2.8	3.45 4.8 2.4
STATIST	TICS OF MO	ONTHLY ME	AN DATA FO	R WATER Y	EARS 199	4 - 2002,	BY WATER	YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	4.82 14.6 1997 0.93 2001	17.0 93.7 1997 1.29 2002	14.9 50.2 2002 3.18 2001	11.7 21.8 1999 3.63 2001	45.8 201 1999 7.36 1996	37.6 85.1 2002 7.25 2001	65.3 225 1999 5.26 2000	150 833 2002 3.45 2000	29.5 138 1998 4.09 2001	8.76 28.3 1998 2.38 2001	6.18 23.2 1998 1.33 2001	6.24 27.9 1996 0.74 2001
SUMMARY	STATIST	ICS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002 V	WATER YE	AR	WATER YEA	ARS 1994	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			8.90 1050 0.42 0.50  10 3.3 0.73	Dec : Oct Oct	17 4 3	92.7  7970 0.42 0.50 16300 13.22 0.42 67 7.3 1.2		17 4 3 17 17 9	33.0 92.7 4.94 7970 0.42 0.50 16300 13.22 0.42 34 7.2 2.5	Oct Oct May 1 May 1	2002 2001 17 2002 4 2001 3 2001 17 2002 17 2002 9 2001	

e Estimated

### 07062000 CLEARWATER LAKE NEAR PIEDMONT, MO

LOCATION.--Lat  $37^{\circ}08^{\circ}00^{\circ}$ , long  $90^{\circ}46^{\circ}31^{\circ}$ , NW  $\frac{1}{4}$  sec.6, T.28 N., R.3 E., Wayne County, Hydrologic Unit 11010007, in intake tower at dam on Black River, 2.3 mi upstream from Brewer Bay, 4.5 mi west of Piedmont, and at mile 257.4.

DRAINAGE AREA. -- 898 mi<sup>2</sup>.

PERIOD OF RECORD. -- June 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by earthfill type dam. Storage began June 3, 1948; conservation pool level reached July 4, 1948.

Capacity at crest of spillway 413,700 ac-ft at elevation 567.0 ft, of which 391,800 ac-ft is available for flood-control storage, and 21,920 ac-ft is permanent storage which under normal operating conditions will be maintained for purposes of conservation and recreation at elevation 494.0 ft. Lake is used for flood control and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 409,700 ac-ft, May 20, 2002, elevation, 566.60 ft; minimum, since initial filling to conservation pool level, 15,800 ac-ft, Jan. 20, 23, 1972, elevation, 490.00 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 409,700 ac-ft, May 20, elevation, 566.60 ft; minimum, 20,800 ac-ft, Feb. 14, elevation, 493.31 ft.

			ELEVATI	ON, IN FE		YEAR OCT		1 TO SEPT	EMBER 200	2		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	499.86 499.85 499.84 499.84	500.03 499.78 499.46 499.11 498.75	497.03 497.75 497.27 496.10 494.78	493.93 493.85 493.68 493.59 493.56	502.19 505.13 505.08 503.87 501.88	493.42 493.55 493.66 493.79 493.86	512.86 511.31 509.60 507.75 505.76	511.48 511.36 510.58 509.37 508.06	562.05 561.45 560.83 560.21 559.62	540.54 539.53 538.53 537.47 536.40	500.20 500.20 500.23 500.25 500.26	500.17 500.17 500.16 500.15 500.13
6 7 8 9	499.90 499.90 499.89 499.87	498.37 497.87 497.40 496.88 496.39	494.31 494.31 494.29 494.18 493.99	493.57 493.54 493.50 493.49 493.51	499.61 497.88 496.84 495.98 495.03	493.65 493.44 493.40 499.78 507.42	503.61 502.06 504.38 506.74 506.79	506.53 505.57 521.28 530.14 532.95	558.97 558.31 557.64 557.21 557.08	535.30 534.19 533.04 531.87 530.89	500.26 500.24 500.23 500.18 500.16	500.13 500.13 500.14 500.14 500.14
11 12 13 14 15	500.09 500.18 500.33 500.43	495.90 495.39 494.86 494.45 494.32	493.78 493.66 493.57 493.70 494.61	493.51 493.52 493.51 493.51 493.51	494.21 493.82 493.47 493.31 493.39	509.38 509.44 509.06 508.06 507.24	505.92 505.19 505.88 507.55 508.79	534.38 535.81 548.40 551.07 552.12	556.57 556.05 555.43 554.78 554.09	529.95 528.79 527.56 526.30 525.02	500.18 500.21 500.49 500.64 500.54	500.13 500.11 500.11 500.15 500.19
16 17 18 19 20	500.24 499.97 499.90 499.91 499.94	494.26 494.23 494.20 494.17 494.15	496.24 505.57 510.29 510.86 509.95	493.49 493.46 493.47 493.50 493.53	493.49 493.57 493.61 493.92 494.69	508.53 509.71 510.14 511.32 516.59	508.76 508.04 506.96 506.00 506.82	552.75 562.93 565.84 566.50 566.60	553.41 552.67 551.92 551.14 550.37	523.65 522.23 520.74 519.17 517.53	500.35 500.34 500.37 500.35 500.34	500.21 500.21 500.22 500.26 500.33
21 22 23 24 25	499.97 500.00 500.05 500.13 500.15	494.15 494.14 494.13 494.13	508.49 506.84 505.00 502.96 500.70	493.55 493.55 493.61 493.87 494.00	495.08 495.10 495.19 495.16 494.64	518.87 519.04 518.52 517.62 517.54	507.78 508.11 507.23 509.24 510.82	566.49 566.31 565.99 565.60 565.17	549.55 548.73 547.89 547.03 546.16	515.83 514.03 512.11 510.08 508.13	500.34 500.42 500.44 500.78 501.03	500.28 500.21 500.17 500.15 500.11
26 27 28 29 30 31	500.15 500.16 500.15 500.15 500.14 500.12	494.31 494.28 494.32 494.74 495.52	498.28 496.49 495.61 494.94 494.21 493.91	494.08 494.13 494.05 494.03 493.90 494.95	493.86 493.55 493.44 	518.63 518.65 517.75 516.65 515.50 514.23	511.51 511.85 512.39 512.37 511.66	564.70 564.20 563.88 563.60 563.16 562.62	545.26 544.36 543.43 542.49 541.53	506.37 504.65 502.82 501.26 500.62 500.35	500.80 500.36 500.20 500.17 500.16 500.17	500.20 500.36 500.31 500.21 500.06
MEAN MAX MIN	500.05 500.45 499.84	495.79 500.03 494.13	498.51 510.86 493.57	493.71 494.95 493.46	496.32 505.13 493.31	508.01 519.04 493.40	508.12 512.86 502.06	545.01 566.60 505.57	552.87 562.05 541.53	521.77 540.54 500.35	500.35 501.03 500.16	500.18 500.36 500.06
( - ) ( = )	33000 +500	24400 -8600	21800 -2600	23500 +1700	21000 -2500	70500 +49500	62300 -8200	370100 +307800	202400 -167700	33400 -169000	33100 -300	32900 -200

CAL YR 2001...-1200 WTR YR 2002...+ 400

<sup>(-)</sup> Contents, in acre-feet, at the end of the month.

<sup>(=)</sup> Change in contents, in acre-feet.

#### 07063000 BLACK RIVER AT POPLAR BLUFF, MO

LOCATION.--Lat  $36^{\circ}45^{\circ}34^{\circ}$ , long  $90^{\circ}23^{\circ}17^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.2, T.24 N., R.6 E., Butler County, Hydrologic Unit 11010007, on right bank at City Light and Water Plant in Poplar Bluff, 1,500 ft upstream from bridge on Business Route 60, 4.8 mi downstream from Indian Creek, and at mile 211.2.

DRAINAGE AREA.--1,245 mi<sup>2</sup>

PERIOD OF RECORD.--October 1936 to September 1937, October 1939 to current year. Gage-height records collected at site 1,800 ft downstream September 1923 to July 1935 and since July 1935 at site 1,500 ft downstream, in reports of the National Weather Service.

REVISED RECORDS. -- WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 317.48 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1940, nonrecording gage at site 1,500 ft downstream at datum 2.00 ft higher; Oct. 1, 1940, to June 7, 1955, at site 1,500 ft downstream at present datum. Prior to July 12, 1985, at datum 0.10 ft lower.

REMARKS.--Records good. Considerable regulation by Clearwater Lake (07062000), 46 mi upstream since June 3, 1948. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of March 1904 reached a maximum discharge of  $100,000 \text{ ft}^3/\text{s}$ , and flood of Mar. 12, 1935, reached a stage of 21.1 ft, present datum (affected by levees constructed since 1904).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY DEC OCT NOV JAN FEB APR MAY AUG SEP 7 e490 255 752 e474 e460 e446 624 3650 3780 574 706 MEAN MAX MTN 0.57 2.21 0.68 0.33 0.92 0.45 1.79 2.92 4.08 3.61 3.40 IN. 3.15 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2002a, BY WATER YEAR (WY) MEAN MAX (WY) MIN (WY) SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1949 - 2002a ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN Dec 17 May Dec LOWEST DAILY MEAN Oct Oct Sep 25 1966 ANNUAL SEVEN-DAY MINIMUM Sep 28 Oct. Sep 21 1966 MAXIMUM PEAK FLOW May 65600<sup>k</sup> 4 1982 4 1982 21.68° MAXIMUM PEAK STAGE \_\_\_ 18.45 May Dec INSTANTANEOUS LOW FLOW Oct 1,3-5 Sep 25 1966 ANNUAL RUNOFF (INCHES) 9.44 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 

a Post-regulation period.

b Determined by indirect measurement.

c Former datum.

### 07064533 CURRENT RIVER ABOVE AKERS, MO

LOCATION.--Lat  $37^{\circ}22'32''$ , long  $91^{\circ}33'09''$ , in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.24, T.31 N., R.6 W., Shannon County, Hydrologic Unit 11010008, on left bank 200 ft above ferry crossing at Akers on Highway K, approximately 20 mi north of Summersville, behind old icehouse behind Akers Ferry General Store.

DRAINAGE AREA. -- 295 mi<sup>2</sup>.

MAX

MIN

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PERIOD OF RECORD. -- Aug. 14, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS. -- Records poor. U.S.G.S. satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--For period Aug. 14 to Sept. 30, maximum discharge, 186 ft<sup>3</sup>/s, Sept. 9, gage height 1.09 ft; minimum, 130 ft<sup>3</sup>/s, several days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC FEB MAR APR MAY NUTL JUL AUG SEP JAN 137 1 2 ---------------------------------136 ---------\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ ---\_\_\_ \_\_\_ 4 133 5 ---------------------132 133 6 \_\_\_ \_\_\_ \_\_\_ \_\_\_ ------------------------------134 ------------------------------8 143 \_\_\_ 9 168 10 158 11 148 12 144 ------------------13 \_\_\_ ---\_\_\_ 141 ------------143 14 140 15 141 139 138 16 140 139 138 18 \_\_\_ ---\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ 141 141 ------19 140 139 20 138 136 21 137 135 23 \_\_\_ ---\_\_\_ ------\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ 136 136 24 136 136 25 136 133 26 135 133 27 ---------------------135 134 28 \_\_\_ ---\_\_\_ ---\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ 133 133 29 133 132 30 135 132 \_\_\_ \_\_\_ ---\_\_\_ \_\_\_ 31 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ 139 MEAN 138

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# 07064533 CURRENT RIVER ABOVE AKERS, MO--Continued

LOCATION.--Lat  $37^{\circ}22'32"$ , long  $91^{\circ}33'09"$ , in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec.24, T.31 N., R.6 W., Shannon County, Hydrologic Unit 11010008, on left bank 200 ft above ferry crossing at Akers on Highway K, approximately 20 mi north of Summersville, behind old icehouse behind Akers Ferry General Store.

DRAINAGE AREA. -- 295 mi<sup>2</sup>.

PERIOD OF RECORD. -- July 19, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

		DISCHAF	RGE, CUBIC	C FEET PER		WATER YE Y MEAN VA		R 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	138	223	197	1970	203	621	579	726	343	241	234
2	131	140	196	192	1110	237	598	562	675	340	245	224
3	132	135	184	186	849	313	556	544	639	338	239	220
4	133	132	177	182	666	306	520	509	609	338	235	217
5	140	133	172	182	546	297	499	471	591	334	235	216
6	134	132	169	181	488	298	486	476	568	330	234	214
7	130	132	165	175	424	298	486	645	546	327	234	214
8	130	132	161	173	378	294	948	12700	528	321	232	214
9	131	131	155	172	350	734	1140	3300	512	318	233	216
10	135	132	153	169	328	946	924	2080	527	334	238	217
11	142	131	151	165	298	763	818	1600	523	324	241	217
12	139	131	164	163	282	793	754	2120	493	295	243	214
13	142	133	192	162	261	754	712	8870	508	296	269	215
14	138	133	198	159	248	668	1940	2460	507	286	279	219
15	137	133	192	153	241	605	1130	1820	485	280	261	215
16	137	132	324	151	232	729	866	1590	463	276	251	213
17	135	132	1190	150	223	693	800	8270	446	272	262	219
18	136	134	1010	149	217	611	720	4370	432	270	246	217
19	136	134	710	152	233	917	665	2260	420	273	249	230
20	137	131	534	147	280	2250	747	1790	409	268	301	247
21	136	132	433	146	277	1640	1000	1540	400	264	328	230
22	136	133	387	143	253	1320	932	1380	392	261	278	220
23	149	137	345	153	241	1140	826	1260	385	262	261	212
24	151	160	311	253	237	1010	801	1180	381	256	256	214
25	145	172	287	264	232	953	787	1100	376	254	249	209
26 27 28 29 30 31	136 134 132 132 134 135	163 156 159 171 228	269 250 237 223 212 205	230 212 201 194 197 712	221 211 206 	941 868 819 781 723 666	692 658 666 614 574	1020 966 913 869 826 777	371 367 363 356 349	253 251 247 244 242 243	244 245 241 237 233 235	211 211 207 215 223
MEAN	136	142	309	196	411	760	783	2221	478	288	251	218
MAX	151	228	1190	712	1970	2250	1940	12700	726	343	328	247
MIN	130	131	151	143	206	203	486	471	349	242	232	207
								YEAR (WY				
MEAN	136	142	309	196	411	760	783	2221	478	288	251	178
MAX	136	142	309	196	411	760	783	2221	478	288	251	218
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	136	142	309	196	411	760	783	2221	478	288	251	138
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001
SUMMARY	Y STATISTI	CS			FOR 20	002 WATER	YEAR			WATER YE	ARS 2001	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS					1270 1: 1: Unknov 18.2 1: 9:	30 Oc 32 N wn M 20 M	lay 8 it 7,8 iov 6 lay 8 lay 8			518 518 518 12700 130 132 Unknown 18.20 129 943 253 136	Oct 7	2002 2002 8 2002 ,8 2001 6 2001 8 2002 8 2002 1 2001

# 07065200 JACKS FORK NEAR MOUNTAIN VIEW, MO

LOCATION.--Lat  $37^{\circ}03^{\circ}22^{\circ}$ , long  $91^{\circ}40^{\circ}05^{\circ}$ , in NW  $^{1}/_{4}$  NE  $^{1}/_{4}$  SW  $^{1}/_{4}$  sec.36, T.28 N., R.7 W., Texas County, Hydrologic Unit 11010008, on downstream side of State Highway 17 bridge, 3.8 mi north of junction with Highway 60 and 8.6 mi south of Summersville.

DRAINAGE AREA.--185 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records good except estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum instantaneous gage height 27.68 ft, discharge unknown, May 8; minimum discharge, 15 ft<sup>3</sup>/s, Oct. 3-5.

		DISCHAR	GE, CUBIC	FEET PER			AR OCTOBER	2001 TC	SEPTEMBE	R 2002		
					DAIL	Y MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	84	e42	1650	71	145	202	116	45	53	41
2	16	24	65	e40	531	101	132	175	108	44	50	40
3	15	24	54	e39	334	328	114	147	100	43	47	38
4	15	23	47	e38	237	239	99	134	93	42	45	37
5	17	22	42	37	177	196	91	116	99	41	44	40
6	20	22	47	39	148	171	84	118	103	40	42	39
7	19	22	44	37	128	153	89	452	90	39	41	37
8	18	22	41	35	110	137	3010	e9400	83	38	40	35
9	17	22	38	33	98	2800	1100	e2160	80	37	39	35
10	20	22	36	33	89	918	590	1130	88	38	39	34
11	32	22	34	33	79	519	411	696	247	41	39	33
12	31	21	38	32	73	634	317	507	143	44	41	33
13	29	21	59	31	67	457	272	1450	139	51	e62	e32
14	29	21	100	31	62	340	1860	750	145	45	e88	e32
15	27	21	90	30	59	274	738	492	109	42	e74	e32
16	26	21	404	30	56	624	469	380	93	41	68	e31
17	25	21	2470	29	53	397	460	5090	84	41	61	e33
18	24	21	713	30	51	296	364	1860	77	45	56	e37
19	23	22	356	33	63	1610	291	861	71	3050	52	e39
20	23	22	222	32	261	2600	322	565	66	719	50	e46
21	22	21	158	30	236	965	560	413	62	282	e48	e62
22	22	21	125	31	176	553	339	333	59	162	e46	e58
23	22	21	103	35	142	401	260	284	55	128	e49	e48
24	25	28	85	380	121	316	528	244	53	124	e53	37
25	30	31	73	303	108	357	408	222	63	94	e62	35
26	27	33	65	192	96	398	298	191	55	79	e72	33
27	26	32	59	140	84	331	274	171	53	70	59	33
28	25	38	55	111	76	285	307	155	51	63	52	32
29	23	53	51	94		251	260	149	49	57	48	31
30	23	77	47	85		201	214	138	48	55	46	30
31	23		e44	1360		168		126		55	42	
MEAN	22.9	26.5	189	111	192	551	480	939	89.4	184	51.9	37.4
MAX	32	77	2470	1360	1650	2800	3010	9400	247	3050	88	62
MIN	15	21	34	29	51	71	84	116	48	37	39	30

e Estimated

# 370857091265901 JACKS FORK ABOVE ALLEY SPRING, MO (Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°08'57", long 91°26'59", in NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.25, T.29 N., R.5 W., Shannon County, Hydrologic Unit 11010008, at Alley Spring Campground, 0.5 mi upstream of Highway 106 bridge, 1.0 mi upstream from Alley Spring Branch, and 5.5 mi west of Eminence.

DRAINAGE AREA.--302 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1998 to current year.

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)
OCT												
02	1500	ENVIRONMENTAL	29	8.8	102	8.1	348	21.7	<.04	<.10	E.04	<.008
10	0830	ENVIRONMENTAL	33	7.5	80	7.6	349	17.5	<.04	<.10	.05	<.008
10	1200	ENVIRONMENTAL	32	8.5	92	7.8	349	18.0	<.04	<.10	.05	<.008
11	0840	ENVIRONMENTAL	40	7.3	78	7.5	344	17.5	<.04	<.10	.06	<.008
11	1220	ENVIRONMENTAL	42	8.3	90	7.6	337	17.8	<.04	<.10	.06	<.008
NOV	1220	DIVV IICOM IDIVITID	12	0.5	50	7.0	337	17.0	1.01	1.10	.00	1.000
20	1645	ENVIRONMENTAL	35	10.1	95	8.0	353	12.2	E.02	<.10	<.05	<.008
APR	1045	ENVIRONMENTAL	33	10.1	23	0.0	333	12.2	E.02	V.10	1.05	<.000
02	1110	ENVIRONMENTAL	245	10.8	108	8.2	254	13.8	<.04	<.10	.20	<.008
30	1200	ENVIRONMENTAL	382	9.5	100	8.1	269	16.5	<.04	E.08	.08	<.008
MAY	1200	ENVIRONMENTAL	302	9.5	100	0.1	209	10.5	<.04	E.00	.00	<.000
29	1025	ENVIRONMENTAL	303	10.1	112	8.2	268	18.6	<.04	E.09	.12	<.008
JUN	1025	ENVIRONMENTAL	303	10.1	112	0.2	200	10.0	<.04	E.09	.12	<.000
	1045	ENTATE ON MACHINERA I	201	8.5	103	0 0	289	22 5	- 01	E.06	17	<.008
04		ENVIRONMENTAL				8.0		23.5	< . 04		.17	
28	0840	ENVIRONMENTAL	99	6.9	84	7.7	298	24.2	<.04	E.08	.15	<.008
28	0841	REPLICATE							<.04	E.09	.15	<.008
28	1255	ENVIRONMENTAL	99	8.0	103	7.9	307	27.0				
29	0910	ENVIRONMENTAL	92	6.9	87	7.7	317	25.2				
29	1400	ENVIRONMENTAL	90	8.2	106	8.0	316	27.9	<.04	.11	.11	<.008
JUL												
29	1105	ENVIRONMENTAL	110	8.1	103	8.2	309	26.5	<.04	<.10	.06	<.008
AUG												
06	0950	ENVIRONMENTAL	84	6.5	84	7.9	319	26.9	<.04	E.06	<.05	E.004
06	1520	ENVIRONMENTAL	82	8.5	115	8.1	314	29.4				
07	0840	ENVIRONMENTAL	80	6.6	82	7.8	318	25.3				
07	1330	ENVIRONMENTAL	80	8.6	113	8.0	323	28.2	<.04	<.10	<.05	E.004
			ORTHO- PHOS- PHATE, DIS-	PHOS- PHORUS	E COLI, MTEC MF	ENTERO- COCCI, MEI MF,	COLI- FORM, FECAL, 0.7	FECAL STREP, KF STRP MF,				
			SOLVED	TOTAL	WATER	WATER	μm-MF	WATER				
		D3.000	00HVED	101AL	WAILE /	/ 1 /		/ 1 /				

DATE	ORTHO- PHOS- PHATE, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)		MEI MF, WATER (col./	0.7 µm-MF (col./ 100 mL)	KF STRP MF, WATER (col./ 100 mL)
OCT						
02	<.02	<.004	K3	К9	К9	K8
10	<.02	<.004	47	K113	K66	41
10	<.02		29	67	43	35
11	<.02			K255	K143	K190
11 NOV	<.02	<.004	61	K144	K109	85
20	<.02	.009	<1		K4	K11
APR	<.02	.009	ν_Τ		17.4	KII
02	<.02	E.002	<1		<1	К9
30	<.02	E.003	K3	28	K2	K11
MAY						
29	<.02	E.002	K15		21	42
JUN						
04	< .04	E.002	<1	43	K14	26
28	<.02	E.003	K16	190	K12	148
28	<.02	E.002				
28 29			<2 K12	44 170	K8 K18	K26 90
29	<.02	E.003	K12	64	K30	46
JUL	<.02	E.003	KIZ	04	1.30	40
29	<.02	E.003	K2	79	K13	41
AUG						
06	<.02	E.003	K26	130	K24	66
06			K22	52	K32	56
07			K12	164	K26	86
07	<.02	E.003	K4	64	K14	112

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numberic result is less than the value shown.

# 07065495 JACKS FORK AT ALLEY SPRING, MO

LOCATION.--Lat 37°08'53", long 91°26'35", in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.25, T.29 N., R.5 W., Shannon County, Hydrologic Unit 11010008, on downstream end of pier on foot bridge, just downstream of Highway 106 bridge, 0.5 mi upstream from Alley Spring Branch, and 5.5 mi west of Eminence.

DRAINAGE AREA. -- 298 mi<sup>2</sup>.

PERIOD OF RECORD. -- March 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 656.74 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1999, datum was 4.0 ft lower.

REMARKS.--Records good. U.S.G.S satellite telemeter at station.

		DISCHARO	E, CUBIC	FEET PER		WATER YE MEAN VA	CAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	38	106	60	2590	117	269	365	256	84	98	78
2	29	39	111	57	901	126	244	340	242	83	96	76
3	29	39	92	54	546	257	214	292	229	80	92	73
4	28	39	80	51	403	345	183	260	218	79	88	71
5	31	39	70	48	310	289	162	234	208	78	85	69
6	33	37	69	49	259	255	149	220	220	76	83	69
7	33	37	68	49	226	233	150	307	207	73	80	68
8	33	36	66	47	195	213	2610	15800	194	71	78	68
9	32	36	61	45	171	2570	2000	4090	184	70	81	66
10	33	36	57	45	153	1840	975	2200	174	71	86	65
11	40	36	53	44	136	880	670	1330	244	76	85	63
12	47	36	55	43	120	810	577	970	273	74	84	62
13	56	36	65	41	109	716	546	1840	246	81	112	62
14	54	35	88	40	100	561	1850	1480	219	81	209	60
15	50	34	128	39	89	469	1350	951	198	77	163	61
16	51	34	193	39	83	604	785	716	173	73	135	61
17	47	34	2360	38	78	596	640	5770	162	77	115	65
18	44	34	1290	39	73	478	595	3550	149	77	104	65
19	42	35	611	44	91	938	527	1570	140	960	99	65
20	40	35	399	43	233	4210	462	1060	133	2330	97	77
21	40	35	292	41	377	1800	619	770	125	483	91	90
22	39	34	233	40	300	964	567	650	119	297	87	95
23	39	34	193	44	244	663	463	560	114	218	87	79
24	39	48	161	126	209	536	570	490	110	185	106	71
25	40	49	136	431	184	512	687	438	110	168	103	66
26 27 28 29 30 31	42 42 40 39 39 38	48 49 55 72 89	118 105 91 81 73 66	299 223 176 148 131 214	165 144 127 	608 557 492 441 373 313	523 474 465 452 388	390 348 323 303 287 271	114 103 97 91 88	145 130 119 110 106 102	126 115 101 93 86 81	65 65 62 59 58
MEAN	39.3	41.3	244	89.9	308	767	672	1554	171	217	102	68.5
MAX	56	89	2360	431	2590	4210	2610	15800	273	2330	209	95
MIN	28	34	53	38	73	117	149	220	88	70	78	58
STATIST	CICS OF MO	NTHLY MEAN	I DATA FO	R WATER Y	EARS 1993	3 - 2002,	BY WATER	YEAR (WY)				
MEAN	116	314	194	200	427	461	496	504	179	115	85.9	180
MAX	298	1426	370	331	976	767	1121	1554	381	217	145	1007
(WY)	1999	1994	1997	1995	1999	2002	1994	2002	1995	2002	1998	1993
MIN	39.3	41.3	76.6	74.5	81.6	159	86.5	93.5	83.3	52.2	31.5	31.2
(WY)	2002	2002	2001	2000	1996	2001	2000	2001	2001	2001	2001	2000
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YE	AR	FOR 2002	WATER YEA	R	WATER YE	ARS 1993	- 2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			131 4470 23 25   237 68 30	Feb 2 Sep Sep	7	358 15800 28 30 40000 17.10 28 677 105 39	May Oct Oct May May Oct 3-	4 1 8 8	266 469 95.9 23300 22 23 48700 21.97 22 505 120 49	Sep 2 Sep 1 Nov 1 Nov 1	1994 2000 4 1993 22 2000 7 2000 4 1993 4 1993 22 2000	

NITRO-GEN, NITRITE DIS-DIS-SOLVED (mg/L as N) (00613)

> <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 E.005

> <.008 <.008 <.008 E.004 E.004

### 370901091262001 ALLEY SPRING BELOW ALLEY, MO (Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°09'01", long 91°26'20", in NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.25, T.29 N., R.5 W., Shannon County, Hydrologic Unit 11010008, at Alley Spring Campground, and 5.0 mi west of Eminence.

PERIOD OF RECORD. -- May 1998 to current year.

WATER-OUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	1
OCT												
02	1430	ENVIRONMENTAL	66	9.9	101	7.8	318	15.2	<.04	<.10	.52	
10	0900	ENVIRONMENTAL	66	9.2	92 97	7.5	321	14.4	<.04	<.10	.50	
10 11	1240 0920	ENVIRONMENTAL ENVIRONMENTAL	66 66	9.7 8.8	88	7.4 7.5	322 320	14.5 14.2	<.04 <.04	<.10 <.10	.51 .51	
11	1240	ENVIRONMENTAL	66	9.6	96	7.5	314	14.3	<.04	.47	.52	
NOV	1210	2117 2110111 2211112	00	3.0	,,,	7.5	311	11.5		• • •	.52	
20	1600	ENVIRONMENTAL	62	9.3	92	7.7	322	14.0	<.04	<.10	.52	
APR												
02	1140	ENVIRONMENTAL	200	10.7	106	7.3	166	13.5	<.04	E.07	.69	
30	1215	ENVIRONMENTAL	250	10.3	102	7.4	176	13.5	<.04	E.06	.53	
MAY 29	1100	ENVIRONMENTAL	293	10.1	101	7.2	179	13.6	<.04	.10	.60	
JUN	1100	ENVIRONMENTAL	293	10.1	101	1.2	1/9	13.0	<.04	.10	.60	
04	1115	ENVIRONMENTAL	226	10.8	108	7.1	202	14.0	<.04	<.10	.63	
28	0955	ENVIRONMENTAL	145	10.2	101	7.3	239	13.8	<.04	E.07	.70	
28	1305	ENVIRONMENTAL	145	10.7	108	7.2	246	14.8				
29	1000	ENVIRONMENTAL	142	9.9	99	7.1	250	14.4				
29	1420	ENVIRONMENTAL	142	10.6	107	7.4	248	14.6	<.04	E.07	.72	
JUL												
29	1145	ENVIRONMENTAL	118	10.6	106	7.9	280	14.2	<.04	<.10	.76	
AUG 06	1045	ENVIRONMENTAL	105	10 0	108	7 5	280	14.0	<.04	<.10	.75	
06	1045	REPLICATE	105	10.8	100	7.5	200	14.2	<.04		.75	
06	1605	ENVIRONMENTAL	105		105	7 4	278	14.4				
07	0910	ENVIRONMENTAL	105	10.2	101	7.4	280	14.1				
07	1405	ENVIRONMENTAL	105  105 105 105	10.5 10.2 10.8	109	7.5  7.4 7.4 7.5	286	14.7	<.04	<.10	.75	
		DATE	(mg/L as P)	PHORUS TOTAL (mg/L as P)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	MEI MF, WATER (col./		MF, WATER (col./ 100 mL)				
		OCT										
		02	<.02	.009	K4	20	K12	K17				
		10	<.02	.008	K6	45	20	20				
		10	<.02	.009	К6	21	K16	K17				
		11	<.02	.009	K18	28	K16	24				
		11	<.02	.010	K5	31	K10	31				
		NOV 20	<.02	E.002	К1		К6	K5				
		APR	1.02	E.002	KI		100	KS				
		02	<.02	.015	<1		K17	K10				
		30	<.02	.013	46	K368	K112	K221				
		MAY										
		29	<.02	.021	28		41	81				
		JUN			_							
		04	<.04	.019	K3	57	20	31				
		28	<.02	.012	52	K26	K22	K24				
		28 29			K4 K16	K28 K30	K16 K10	K20 K18				
		29	<.02	.012	K10 K2	K16	K10	K22				
		JUL	02	. 512		1110	110					
		29	<.02	.013	K12	K340	56	K230				
		AIIC										

<.02

<.02

--

<.02

.011

.012

--

.012

K28

--K28

52

112

96

138

52

--K32

40

110

74 72 52

AUG 06...

06...

06... 07... 07...

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numberic result is less than the value shown.

# 370911091223201 MAHANS CREEK ABOVE EMINENCE, MO (Jacks Fork water-quality monitoring network)

LOCATION.--Lat  $37^{\circ}09^{\circ}11^{\circ}$ , long  $91^{\circ}22^{\circ}32^{\circ}$ , in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.27, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, 0.25 north of State Highway 106 on county road and 1.0 mi west of Eminence.

DRAINAGE AREA. -- 54.0 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1998 to November 2001.

				,					_			
DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)
OCT 02 02 10 10 11 11 NOV 20 20	1400 1401 0940 1330 1345 1000 1305	ENVIRONMENTAL REPLICATE ENVIRONMENTAL BLANK ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL REPLICATE	3.5  3.9 3.9  4.6 4.6	9.3  7.9 8.3  7.8 8.2 10.3	102  83 88  82 87	8.0  7.6 7.8  7.7 7.7 8.0	463  462 462  450 437 456 	18.7  16.5 17.3  16.6 16.9	<.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	E.05 <.10 E.06 <.10 <.10 E.09 E.07	.21 .21 .20 .18 <.05 .18 .18 .20	<.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008
		DATE	ORTHO-PHOS-PHATE, DIS-SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO- COCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)				
		OCT 02 10 10 11 11 NOV 20 20	E.01 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	E.003 .006 .005 .004 <.004 .004 .004	110  88 K31  220 80 K2 	78  374 212  580 460	K90  92 K66  270 124 K33	62  254 128  350 350 K35				

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.

<sup>&</sup>lt;--Numberic result is less than the value shown.

#### 07066000 JACKS FORK AT EMINENCE, MO

LOCATION.--Lat  $37^{\circ}09^{\circ}18^{\circ}$ , long  $91^{\circ}21^{\circ}31^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.26, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, on right downstream bridge abutment on State Highway 19, 1.5 mi downstream from Mahans Creek, and 8.0 mi upstream from mouth.

### DRAINAGE AREA.--398 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. --October 1921 to current year. Monthly discharge only for October 1921, published in WSP 1311.

REVISED RECORDS.--WSP 787: 1928(M), 1934. WSP 877: 1938. WSP 927: Drainage area. WSP 1281: 1929. WDR MO-85-1: 1935(M), 1943(M), 1949(M), 1950(M), 1956(M), 1966(M), 1969(M), 1974(M), 1983(M).

GAGE.--Water-stage recorder. Datum of gage is 615.87 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1995, datum of gage 2 ft higher. Prior to Jan. 27, 1934, nonrecording gage at site 1,350 ft upstream at datum 2.11 ft higher; Jan. 27, 1934, to Jan. 10, 1935, nonrecording gage at site 75 ft downstream at datum 0.04 ft lower; Jan. 11, 1935, to July 9, 1964, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Water-discharge records good. National Weather Service gage-height and U.S.G.S. satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of 1895 and March 1904 reached a stage of about 27 ft, present site and datum, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY SEP OCT NOV DEC JAN FEB APR MAY AUG 7 112 131 270 1210 3510 253 112 780 ---MEAN MAX MTN 7.36 0.33 1.20 0.67 0.33 3.61 3.21 1.26 0.50 0.53 1.35 1.14 IN. STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY) MEAN MAX (WY) MIN 76.5 98.1 96 9 89 8 84.8 82.6 73 1 (WY) SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1922 - 2002 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN Feb 25 Nov 15 1993 May LOWEST DAILY MEAN 102 Sep 5-7,Oct 4 Oct Sep 16 1956 ANNUAL SEVEN-DAY MINIMUM Oct. Sep 16 1956 Sep 1 MAXIMUM PEAK FLOW May Nov 15 1993 MAXIMUM PEAK STAGE ---17.22 May 17.82 Nov 15 1993 INSTANTANEOUS LOW FLOW Oct 1-5 Aug 28 1936 ANNUAL RUNOFF (INCHES) 15.78 21.50 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 

# 07066000 JACKS FORK AT EMINENCE, MO--Continued (Jacks Fork water-quality monitoring network)

# WATER-QUALITY RECORDS

PERIOD OF RECORD. -- May 1998 to current year.

WATER-OUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

NITRO-

GEN,
NITRITE
DISSOLVED

(mg/L as N) (00613)

<.008 <.008 <.008 <.008

<.008

<.008 <.008 <.008

<.008

<.008 <.008

<.008

<.008

E.004

E.005

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBE								TEMBER 200	BER 2002					
DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	(per- cent satur- ation)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	ORGANIC TOTAL (mg/L as N)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	N		
OCT 02	1300	ENVIRONMENTAL	104	10.2	105	8.2	340	15.8	<.04	<.10	.28			
10	1115	ENVIRONMENTAL	109	7.5	78	8.1	343	16.1	<.04	<.10	.32			
10	1630	ENVIRONMENTAL	109	9.9	104	8.2	337	16.8	<.04	<.10	.26			
11	1115	ENVIRONMENTAL	116	7.9	82	7.9	337	15.7	<.04	E.05	.30			
11	1530	ENVIRONMENTAL	116	9.7	102	7.9	337	16.1	<.04	E.09	.28			
NOV 20	1415	ENVIRONMENTAL	112	12.4	115	8.2	327	11.3	<.04	<.10	. 25			
APR	1413	BIVIICINIBILIAL	112	12.1	113	0.2	327	11.5	1.01	V.10	.23			
02	1315	ENVIRONMENTAL	590	11.1	112	8.1	234	14.4	<.04	E.08	.36			
30	1340	ENVIRONMENTAL	760	10.6	110	8.0	246	16.0	<.04	E.06	.20			
30	1350	REPLICATE							<.04	E.08	.19			
MAY 29	1200	ENVIRONMENTAL	657	10.3	110	8.0	240	16.9	<.04	E.07	.30			
JUN	1200	ENVIRONMENTAL	037	10.3	110	0.0	240	10.9	<.04	E.07	.30			
04	1200	ENVIRONMENTAL	488	11.9	134	8.0	256	19.6	<.04	<.10	.29			
28	1045	ENVIRONMENTAL	309	9.1	102	7.6	276	19.6	<.04	E.09	.40			
28	1400	ENVIRONMENTAL	309	10.3	120	7.7	282	21.6						
29 29	1120 1500	ENVIRONMENTAL ENVIRONMENTAL	297 297	8.8 10.0	98 118	7.3 7.9	291 288	19.8 22.5	<.04	 E.09	.22			
JUL	1300	ENVIRONMENTAL	291	10.0	110	7.9	200	22.5	V.04	E.09	. 22			
29	1420	ENVIRONMENTAL	266	10.5	125	8.2	300	22.8	<.04	<.10	.37			
AUG														
06	1205	ENVIRONMENTAL	220	9.5	109	7.9	305	21.1	<.04	<.10	.33			
06 07	1630 0945	ENVIRONMENTAL ENVIRONMENTAL	216 216	11.6 8.2	138 91	8.2 7.8	299 305	22.7 19.7						
07	1445	ENVIRONMENTAL	216	10.8	128	8.1	307	22.7	<.04	E.07	.31			
		DATE	ORTHO-PHOS-PHATE, DIS-SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	MEI MF, WATER (col./ 100 mL)	0.7 µm-MF (col./ 100 mL)							
		0.000												
		OCT 02	<.02	E.003	K1	K12	K12	к3						
		10		E.002	K31	69	K36	46						
		10	<.02	.007	K15	46	K24	K37						
		11		E.003	K83	300	108	232						
		11 NOV	<.02	.004	K17	136	80	128						
		20	<.02	E.002	<1		K3	K4						
		APR												
		02	<.02	.005	<1		K6	K5						
		30 30	<.02 <.02	.006 .006	K18	77 	37	49						
		MAY	1.02	.000										
		29	<.02	.009	К6		26	39						
		JUN	- 04	005	.1	40	77.1 -	00						
		04 28	<.04 <.02	.005	<1 K12	42 29	K15 K13	23 K18						
		28			K4	K10	K5	K11						
		29			K16	26	27	30						
		29	<.02	.010	K4	К9	K16	K15						
		JUL 29	<.02	.006	к3	26	23	25						
		AUG	<.∪∠	.000	c.a	∠0	23	∠5						
		06	< .02	.004	K20	50	56	K40						

50 K33

68

44

56 72 42

K183

K40

K25

68 K36

<.02 --

<.02

.004

--

.004

K20 K20

K13

130

06... 06... 07... 07...

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numberic result is less than the value shown.

 $370905091204001 \ \ \, \text{JACKS FORK ABOVE 2ND UNNAMED HOLLOW (SOUTH) BELOW EMINENCE, MO} \\ (\text{Jacks Fork water-quality monitoring network})$ 

LOCATION.--Lat 37°09'05", long 91°20'40", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.25, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, at Jacks Fork Campground and 0.9 mi downstream of Eminence.

DRAINAGE AREA.--406 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1998 to current year.

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	$\begin{array}{c} \text{NITRO-}\\ \text{GEN,}\\ \text{NO}_2 + \text{NO}_3\\ \text{DIS-}\\ \text{SOLVED}\\ (\text{mg/L}\\ \text{as N)}\\ (00631) \end{array}$	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)
OCT												
02	1210	ENVIRONMENTAL	104	10.2	107	8.2	342	16.7	< .04	E.05	.36	<.008
10	1055	ENVIRONMENTAL	109	8.2	86	8.0	342	16.4	<.04	E.10	.30	<.008
10	1800	ENVIRONMENTAL	109	9.2	98	8.0		16.7	<.04	.11	. 29	<.008
11	1320	ENVIRONMENTAL	116	9.5	99	8.1	343	16.1	<.04	<.10	.48	<.008
11	1715	ENVIRONMENTAL	116	9.6	101	8.2	340	16.5	< .04	E.06	.31	<.008
NOV												
20	1230	ENVIRONMENTAL	112	11.8	108	8.3	322	11.1	< .04	<.10	.27	<.008
APR												
02	1405	ENVIRONMENTAL	590	11.1	112	8.1	236	14.3	< .04	E.06	.37	<.008
30	1410	ENVIRONMENTAL	760	10.4	108	8.2	247	16.0	< .04	.14	.20	<.008
MAY												
29	1245	ENVIRONMENTAL	657	9.0	97	8.0	243	17.2	< .04	E.06	.30	<.008
JUN												
04	1255	ENVIRONMENTAL	488	11.6	132	8.0	259	20.2	< .04	.13	. 29	<.008
28	0845	ENVIRONMENTAL	309	8.4	94	7.6	296	19.4	< .04	E.09	.42	<.008
28	1520	ENVIRONMENTAL	309	10.4	124	7.9	295	22.7				
29	1135	ENVIRONMENTAL	297	8.8	100	7.9	296	20.6				
29	1630	ENVIRONMENTAL	297	10.0	121	8.2	297	23.3	<.04	E.07	.38	<.008
JUL												
29	1530	ENVIRONMENTAL	266	10.4	125	8.2	302	23.4	<.04	E.05	.37	<.008
AUG												
06	0900	ENVIRONMENTAL	220	7.6	86	8.0	310	20.5	<.04	<.10	.35	E.005
06	1400	ENVIRONMENTAL	216	10.3	120	7.7	307	21.8				
07	0830	ENVIRONMENTAL	216	7.3	82	7.5	313	19.8				
07	1245	ENVIRONMENTAL	216	9.7	112	7.8	313	21.3	< .04	E.09	.33	E.005

DATE	as P)	as P)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	MEI MF, WATER (col./ 100 mL)	0.7 µm-MF (col./ 100 mL)	
OCT						
02 10 10 11	E.01 <.02 <.02 .02	.008 .007 .009 .018	K8 K34 K48 K74	K21 168 377 351	25 104 K60 108	K4 100 140 164
11 NOV	<.02	.010	88	377	88	196
20 APR	<.02	E.002	<1		K5	К7
02	<.02	.006	K4		K14	K11
30 MAY	<.02	.006	25	55	44	64
29 JUN	<.02	.008	К9		24	28
04	< .04	.006	<1	43	K14	41
28	<.02	.008	54	69	56	50
28			K10	K14	К9	K10
29	<.02	.009	K10 K4	20 K12	26 K8	20 20
29 JUL	<.02	.009	K4	KIZ	1.8	20
29 AUG	<.02	.008	<1	30	23	20
06	<.02	.004	160	270	K187	300
06			K24	110	88	58
07 07	<.02	.007	96 K13	287 148	112 K63	112 K57

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numberic result is less than the value shown.

### 371014091201301 JACKS FORK ABOVE LICK LOG HOLLOW BELOW EMINENCE, MO (Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°10'14", long 91°20'13", in SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.24, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, 2.4 mi downstream from Eminence.

DRAINAGE AREA. -- 409 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1998 to current year.

WATER-OUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002											
DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)
OCT 02 10 11 11	1130 1015 1600 1000 1500	ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL	106 109 109 116 116	10.1 8.2 8.9 8.5 9.4	105 86 94 89 99	8.2 8.1 8.2 7.9	343 346 344 338 338	16.5 16.6 17.0 16.2 16.4	<.04 <.04 <.04 <.04 <.04	E.06 <.10 E.07 .14 E.07	. 27 . 27 . 31 . 34 . 32	<.008 <.008 <.008 <.008 <.008
NOV 21 21	0930 0945	BLANK ENVIRONMENTAL	 114	10.1	 90	8.4	 351	9.6	<.04 <.04	<.10 <.10	<.05 .25	<.008 <.008
APR 02 02 30 MAY	1430 1450 1445	BLANK ENVIRONMENTAL ENVIRONMENTAL	 590 760	11.3 11.0	114 115	8.2 8.2	233 248	14.3 16.1	<.04 <.04 <.04	<.10 E.07 E.09	<.05 .37 .20	<.008 <.008 <.008
29 JUN	1315	ENVIRONMENTAL	657	10.5	113	8.0	244	17.3	<.04	E.08	.31	<.008
04 28 28 29 29	1350 1015 1550 1105 1545 1546	ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL REPLICATE	488 309 309 297 297	11.6 8.8 10.3 8.8 10.1	133 99 124 100 122	8.0 8.2 7.9 7.7 8.2	260 296 297 297 297	21.0 20.2 23.1 20.6 23.4	<.04 <.04   <.04 <.04	.11 E.09   E.08 .10	.28 .41   .38 .38	<.008 <.008   <.008 <.008
JUL 29	1610	ENVIRONMENTAL	266	10.6		8.2	302		<.04	E.06	.35	<.008
AUG 06 06 07	0945 1430 0900 1315	ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL	220 216 216 216 216	8.1 10.2 7.7 9.6	93 121 87 113	8.0 8.3 7.9 8.1	312 309 315 314	21.2 22.7 20.1 22.4	<.04   <.04	E.06   E.06	.36   .33	E.005   E.006
		DATE	ORTHO-PHOS-PHATE, DIS-SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)		COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)				
		OCT 02 10 11 11 NOV	E.02 <.02 <.02 E.01 <.02	.004 .004 .009 .015	K17 92 240 120 140	21 340 K1480 620 960	30 100 440 245 210	K15 148 309 384 325				
		21 21	<.02 <.02	K.002 K.004	 <1		 K14	 20				
		APR 02 02 30	<.02 <.02 <.02	<.004 .005 .006	 <1 23	  63	 K12 30	 22 29				
		MAY 29 JUN	<.02	.007	K8		K19	28				
		04 28 28 29 29	<.04 <.02   <.02 <.02	.005 .008   .009	K4 K18 K2 100 K10	97 41 K15 68 20	K89 34 K11 120 K14	47 33 K11 54 26				
		JUL 29 AUG	<.02	.007	K2	26	27	27				
		0.6	- 02	000	420	171240	17700	1/2 1 2 Q D				

<.02

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<.02

.009

--

.007

430

130 K100

K1340

390 188

K780

K650

K266

K1280

173 128

06...

06...

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numberic result is less than the value shown.

# 07066110 JACKS FORK ABOVE TWO RIVERS, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°10'22", long 91°18'00", in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, at the Shawnee Campground, 4.5 mi downstream from the Eminence Wastewater Treatment Plant.

DRAINAGE AREA. -- 425 mi<sup>2</sup>.

PERIOD OF RECORD. -- April 1973 to current year.

REMARKS.--Ozark National Scenic Riverways station since April 1973 and an Ambient Water-Quality Monitoring Network station since November 1993.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 14	1350	ENVIRONM	ENTAL	97	13.2	128	7.8	349	13.2	200	39.0	23.9	.27
JAN 22	1100	ENVIRONM	ENTAL	144	12.5	104	8.0	314	6.7				
MAR 05	1030	ENVIRONM	ENTAL	504	12.7	103	7.8	284	5.8				
MAY 13	1415	ENVIRONM	ENTAL	2400	8.8	89	7.7	198	15.6	100	21.4	12.0	.29
JUL 15	1045	ENVIRONM		304	7.9	90	7.9	318	20.6				
SEP													
05	0830	ENVIRONM	ENTAL	288	7.1	81	7.7	339	21.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 14	1.79	167	169	206	0	13.0	<.1	2.9	<10	198	<.04	<.10	.20
JAN 22		162	163	198	0				<10		<.04	E.06	. 45
MAR 05		137	139	170	0				<10		<.04	E.05	. 35
MAY													
13 JUL	2.36	101	100	122	0	2.88	<.1	3.5	36	110	<.04	.29	. 21
15 SEP		169	170	207	0				<40		<.04	E.05	.32
05		172	173	211	0				<10		<.04	E.06	.42
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
NOV													
14 JAN	<.008	<.06	<.02	<.06	K2	K1	K4	7	14	.3	<.04	<.1	<6
22 MAR	<.008	<.06	<.02	<.06	K5	K4	K2						
05 MAY	<.008	<.06	<.02	<.06	<1	K5	К2						
13	<.008	<.06	<.02	.06	460	620	1700	88	330	. 2	<.04	<.1	<6
JUL 15	<.008	<.06	<.02	<.06	K21	45	40						
SEP 05	<.008	<.06	<.02	<.06	K28	58	88						

# 07066110 JACKS FORK ABOVE TWO RIVERS, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
14	<10	<.08	<1	E1.5	<.01	E.2	7	3
JAN								
22								
MAR								
05								
MAY								
13	51	1.07	5	9.4	E.01	E.2		5
JUL								
15								
SEP								
05								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

# 371026091183301 JACKS FORK ABOVE POWELL SPRING ABOVE TWO RIVERS, MO (Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°10'26", long 91°18'33", in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.19, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, 3.1 mi upstream from Two Rivers.

DRAINAGE AREA. --412 mi<sup>2</sup>

PERIOD OF RECORD. -- May 1998 to current year.

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)
OCT 02 10 11 11	1045 0930 1500 0930 1400	ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL	108 109 109 116 116	8.9 8.2 10.4 8.1 9.2	92 86 110 85 97	8.2 8.1 8.2 7.7 7.9	347 347 347 340 339	16.2 16.6 17.1 16.4 16.6	<.04 <.04 <.04 <.04 <.04	<.10 E.06 <.10 E.05 E.05	. 23 . 24 . 24 . 27 . 29	<.008 <.008 <.008 <.008 <.008
NOV 21 APR	0845	ENVIRONMENTAL	119	9.6	85	8.2	350	9.1	<.04	<.10	.21	<.008
02 30 MAY	1525 1520	ENVIRONMENTAL ENVIRONMENTAL	590 751	11.0 10.9	111 114	8.2 8.2	240 251	14.3 16.1	<.04 <.04	E.07 E.08	.38 .19	<.008 <.008
29 JUN	1345	ENVIRONMENTAL	657	10.6	114	8.1	246	17.3		E.10		
04 04 28 29 29	1430 1431 1100 1615 0930 1515	ENVIRONMENTAL REPLICATE ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL	492  314 314 312 312	11.4  9.6 10.4 8.7 10.6	132  110 126 99 127	7.9  8.0 8.2 7.8 8.0	263  299 299 300 299	21.4  20.6 23.7 20.6 23.2	<.04 <.04 <.04   <.04	E.06 E.09 E.09  E.08	. 27 . 28 . 40   . 37	<.008 <.008 .009   <.008
JUL 29 AUG	1630	ENVIRONMENTAL	249	10.9		8.2	305		<.04	E.05	.34	E.004
06 06 07 07	1030 1500 0930 1400	ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL	216 216 216 216	8.2 10.5 7.9 10.1	96 126 91 121	8.0 8.2 8.1 8.2	315 312 318 315	22.1 23.2 21.0 23.1	<.04   <.04	<.10   E.09	.33   .31	E.005   E.006
		DATE	ORTHO-PHOS-PHATE, DIS-SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	MEI MF, WATER (col./	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)				
		OCT 02 10 11 11 11 NOV 21	<.02 <.02 <.02 <.02 <.02 <.02	.004 .005 .005 .006 .006	K17 64 58 270 84	41 149 155 K1050 500	39 54 100 420 172 K15	K16 K30 58 346 208				
		APR 02 30	<.02 <.02	.007	<1 K2	 38	K8 29	K12 28				
		MAY 29		.008	K5		22	26				
		JUN 04	<.04	.006	к2	70	K87	37				
		04 28 28 29 JUL	<.04 <.02   <.02	.006 .005   .007	K12 K8 29 K3	 K18 K19 41 K12	33 K19 44 K17	K15 K11 38 K12				
		29 AUG	<.02	.007	K1	28	K16	K14				
		AUG										

K--Results based on colony count outside the acceptable range (non-ideal colony count).

E--Laboratory estimated value.
<--Numberic result is less than the value shown.

### 371019091180101 SHAWNEE CREEK ABOVE TWO RIVERS, MO (Jacks Fork water-quality monitoring network)

LOCATION.--Lat  $37^{\circ}10^{\circ}19^{\circ}$ , long  $91^{\circ}18^{\circ}01^{\circ}$ , in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, at Shawnee Creek Campground and 2.4 mi upstream from Two Rivers.

DRAINAGE AREA. -- 20.0 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

NITRO-

GEN, NITRITE DIS-SOLVED

(mg/L as N) (00613)

<.008 <.008 <.008 <.008

<.008

<.008

<.008 <.008

<.008 <.008

<.008

E.004

E.004

E.005

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> N DIS- SOLVED (mg/L as N) (00631)
OCT 03 10 11 NOV	1100 0945 1515 1215 1645	ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL	2.8 2.8 2.8 4.6 4.6	9.3 7.8 7.3 8.5 8.6	96 81 77 89 91	8.0 7.9 8.0 8.0	515 511 511 516 512	16.0 16.1 16.6 16.7 17.0	<.04 <.04 <.04 <.04 <.04	E.06 <.10 <.10 <.10	.14 .11 .10 .11
20 APR	1115	ENVIRONMENTAL	3.0	11.8	106	8.2	514	10.1	<.04	<.10	.07
03	1155	ENVIRONMENTAL	20	10.9	102	8.2	363	11.9	<.04	E.07	.27
MAY 01 30	1215 0845 0846	ENVIRONMENTAL ENVIRONMENTAL REPLICATE	28 36 	10.4 9.1 	109 97 	8.3 8.1 	379 386 	15.9 17.2 	<.04 <.04 <.04	.15 E.09 .10	.12 .14 .14
JUN 05 28 29 29	1055 1150 1550 1125 1500	ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL	32 12 12 12 12	8.1 8.2 8.5 8.2 8.2	91 99 106 98 101	7.9 8.0 8.1 8.0 8.1	388 471 471 477 472	20.0 23.0 25.0 23.2 25.0	<.04 <.04   <.04	.16 E.09   E.10	. 25 . 24   . 37
JUL 30	1120	ENVIRONMENTAL	11	6.3	79	8.1	486	25.9	<.04	E.06	.20
AUG 06 06 07	1145 1545 1005 1330	ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL ENVIRONMENTAL	6.5 6.5 6.5	7.3 6.9 6.7 7.3	90 86 79 90	7.8 8.0 8.1 8.1	499 492 501 500	24.7 25.4 22.9 24.7	<.04   <.04	<.10   .11	.20   .19
		DATE	ORTHO-PHOS-PHATE, DIS-SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)		COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	MF, WATER (col./ 100 mL)			
		OCT 03 10 11 11 NOV 20 APR 03 MAY 01 30 JUN 05 28 29	<.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	.008 .008 .007 .008 .007 E.003 .004 .017 .005 .006	K4 K9 K34 120 110 <2 K2 50 K14  K3200 K22 K28 K15 K22	K33 188 231 530 560   96   K4980 170 230 190 150	K12 K48 88 144 124 <2 K10 70 K30  K3200 K25 K18 K20 K23	K8 116 K100 257 271 K8 K10 48 86  K3240 138 154 130			
		JUL 30 AUG	<.02	.009	К9	280	K20	300			
		06 06 07	<.02   <.02	.012   .013	510 K60 330 200	453 K75 330 300	K933 198 300 240	533 K58 270 K167			

K--Results based on colony count outside the acceptable range (non-ideal colony count).

E--Laboratory estimated value.
<--Numberic result is less than the value shown.

# 371020091174101 JACKS FORK ABOVE LITTLE SHAWNEE CREEK ABOVE TWO RIVERS, MO (Jacks Fork water-quality monitoring network)

LOCATION.--Lat  $37^{\circ}10^{\circ}20^{\circ}$ , long  $91^{\circ}17^{\circ}41^{\circ}$ , in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, just below Shawnee Creek Campground and 2.2 mi upstream from Two Rivers.

DRAINAGE AREA. -- 433 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1998 to current year.

#### WATER-OUDLITTY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

NITRO-GEN, NITRITE

DIS-

SOLVED (mg/L as N) (00613)

<.008 <.008 <.008 <.008 <.008

<.008

<.008

<.008

<.008

<.008 <.008

<.008

<.008

E.004 E.005

E.005

		WATER	-QUALITY I	DATA, WATE	R YEAR OO	TOBER 200	1 TO SEPT	TEMBER 200	12			
DATE	TIME	SAMPLE TYPE	feet per second)	OXYGEN, DIS- SOLVED (mg/L)	(per- cent satur- ation)	WHOLE FIELD (stand-	CON- DUCT- ANCE (µS/cm)	TEMPER- ATURE WATER (deg C)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)	1
OCT	1000		1.00	0.0	2.0	0 1	251	1.5.0	0.4	1.0	0.4	
03			107			8.1	351	16.0	< .04	<.10	. 24	
03	1030	BLANK							<.04 <.04 <.04	<.10	<.05	
10	1000	ENVIRONMENTAL	111	7.9	83 94	8.0		16.5	<.04	E.08	. 24	
10	1530	ENVIRONMENTAL	111			8.1	343	17.0	<.04	E.06	.23	
10	1535	REPLICATE							<.04	<.10	.23	
11	1200	ENVIRONMENTAL	111	8.5	89	8.1	350	16.6	<.04	<.10	.26	
11	1630	ENVIRONMENTAL	111	9.3	98	8.2	348	16.6 16.8	<.04	<.10	. 29	
NOV												
20	1045	ENVIRONMENTAL	111	11.2	100	8.2	349	10.0	<.04	<.10	.22	
APR												
03	1145	ENVIRONMENTAL	551	10.7	99	8.2	244	11.7	<.04	<.10	.39	
MAY												
01	1145	ENVIRONMENTAL		10.2	106	8.1	267	15.4	<.04		. 22	
30	0930	ENVIRONMENTAL	690	9.3	98	7.9	251	16.8	<.04	.11	.30	
JUN	1120		F 40	0 6	0.4		0.54	10 5	0.4	- 00	2.5	
05	1130	ENVIRONMENTAL	548	8.6	94	7.9	264	18.7	<.04	E.08	.36	
28	1140	ENVIRONMENTAL	314	9.5	110	8.0	309	21.2	<.04	E.09	.39	
28	1545	ENVIRONMENTAL	314	10.4 9.3	126	8.1	308	23.6				
29	1115	ENVIRONMENTAL			107	7.9	312	21.3				
29	1445	ENVIRONMENTAL	302	10.3	122	8.1	312	23.0	<.04	E.08	.35	
JUL												
30	1105	ENVIRONMENTAL	250	8.7	102	8.1	308	22.3	<.04	E.06	.35	
AUG												
06	1130 1530	ENVIRONMENTAL ENVIRONMENTAL	212 212 212	8.8 10.2 8.2	104 123	8.1 7.9 7.9	316 310	22.7 23.6	<.04	E.05	.31	
06			212	10.2	123	7.9	310					
07	1000	ENVIRONMENTAL		8.2	94	7.9	313	21.4				
07	1315	ENVIRONMENTAL	212	9.3	110	8.2	318	22.8	<.04	E.09	.32	
		DATE	ORTHO-PHOS-PHATE, DIS-SOLVED (mg/L as P) (00671)	TOTAL (mg/L as P)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO- COCCI, MEI MF, WATER (col./ 100 mL) (90909)	0.7 µm-MF (col./ 100 mL)	STREP, KF STRP MF, WATER (col./ 100 mL)				
		OCT										
		03	<.02	.004	20	34	25	K17				
		03	<.02	<.004								
		10	<.02	.005	K44	89	56	80				
		10	<.02	.005	К9	104	60	40				
		10	<.02	.004								
		11	<.02	.004	160	K592	220	284				
		11	<.02	.013	91	K412	152	188				
		NOV	2	.015			102	100				
		20	<.02	E.002	K1		K5	K10				
		APR										
		03	<.02	.005	<1		K5	К3				
		MAY		225	26	0.5	25					
		01	<.02	.006	36	97	35	88				
		30 JUN	<.02	.007	K13		20	67				
		JUN 05	<.04	.008	380	770	K840	510				
		28	<.04	.008	X19	K18	20	K16				
		28			K19	K18 K14	20 K9	K10				
		29			K20	K26	25	K10				
		29	<.02	.005	K20 K3	K26 K26	25 22	20				
		Δ9	<.02	.005	6.71	NZ0	22	∠∪				
		30	<.02	.007	K5	105	K63	103				
		50	1.02	.007	103	100	1000	100				

<.02

--<.02

.006

--.005 K180

710 110

K17

70

910

K26

84

K920

64

K29

K1040

06...

06... 07... 07...

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numberic result is less than the value shown.

> 371054091173501 JACKS FORK BELOW 3RD UNNAMED HOLLOW (NORTH) ABOVE TWO RIVERS, MO (Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°10'54", long 91°17'35", in NE  $^1\!\!/_4$  NW  $^1\!\!/_4$  SE  $^1\!\!/_4$  sec.17, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, 1.4 mi upstream from Two Rivers.

DRAINAGE AREA. -- 444 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1998 to current year.

NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)

> <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008 <.008

<.008 <.008 <.008 E.005 --E.004 E.005

		WATER	-QUALITY D	DATA, WATE	R YEAR OC	TOBER 200	1 TO SEPT	TEMBER 200	12		
DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	DIS- SOLVED (mg/L as N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT											
03	0900	ENVIRONMENTAL	110	7.7	79	8.2	359	15.6		<.10	. 23
10 10	0845 1430	ENVIRONMENTAL ENVIRONMENTAL	129 129	7.7 8.6	80 92	7.8 8.0	350 352	16.2 16.9	<.04 <.04	E.07 .27	.24 .22
11	1045	ENVIRONMENTAL	129	8.0	84	8.1	357	16.6	<.04	E.06	.27
11	1500	ENVIRONMENTAL	129	8.2	87	8.1	354	16.9	<.04	<.10	.26
NOV											
20 APR	0900	ENVIRONMENTAL	124	10.4	93	8.1	354	10.2	<.04		.22
03	1000	ENVIRONMENTAL	551	10.3	94	8.1	250	10.8	<.04	E.07	.39
MAY	1000	DIVVIRONIBIVITIE	331	10.5	71	0.1	230	10.0	1.01	D.07	. 33
01	1030	ENVIRONMENTAL	728	9.7	100	7.9	265	15.3	<.04	E.07	.23
30	1100	ENVIRONMENTAL	738	9.6	102	7.9	260	17.3	<.04	E.08	. 29
JUN 05	0940	ENVIRONMENTAL	548	8.6	95	7.8	277	19.1	<.04	E.07	.32
28	0910	ENVIRONMENTAL	310	7.8	89	7.9	319	20.5	<.04	E.07	.40
28	0911	REPLICATE							<.04	E.08	.40
28	1500	ENVIRONMENTAL	310	10.6	127	7.9	320	23.1			
29	1030	ENVIRONMENTAL	298	8.4	96	7.8	322	21.2			
29 JUL	1345	ENVIRONMENTAL	298	9.9	117	8.0	323	22.7	<.04	E.08	.37
30	0945	ENVIRONMENTAL	268	7.4	86	8.1	320	22.0	<.04	<.10	.35
30	1000	BLANK							<.04	<.10	<.05
AUG											
06 06	1015 1445	ENVIRONMENTAL	226 226	7.7 10.3	92	8.1 8.3	323	23.0 23.7	<.04	<.10	.31
07	0915	ENVIRONMENTAL ENVIRONMENTAL	226	7.5	86	8.3	318 322	21.4			
07	1215	BLANK			92 125 86  107				<.04	<.10	<.05
07	1230	ENVIRONMENTAL	226	9.1	107	8.1		22.5	<.04	E.08	.31
		DATE	ORTHO- PHOS- PHATE, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	WATER (col./ 100 mL)	MEI MF, WATER (col./	0.7 µm-MF (col./	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)			
		OCT									
		03	<.02	.004	32	47	42	36			
		10 10	<.02 <.02	.004	100 K21	120 112	111 46	78 K33			
		11	<.02	.004	240	K612	K292	244			
		11	<.02	.006		324	156	123			
		NOV									
		20	<.02		<1		21	K17			
		APR 03	<.02	.005	K2		K12	K13			
		MAY	1.02	.003	112		11.12	11.1.5			
		01	<.02	.006	39	97	49	71			
		30	<.02	.008	K2		22	65			
		JUN 05	<.04	.005	K20	53	44	182			
		28	<.02	.003	K83	230	47	245			
		28	<.02	.006							
		28			K13	32	K13	24			
		29 29	<.02	.006	27 K9	46 v10	K17	20 v11			
		JUL	<b>\.</b> ∪∠	.000	V2	K18	K18	K11			
		30	<.02	.006	K18	220	115	325			
		30	<.02	<.004							

<.02

<.02

<.02

.004

<.004

.006

96

130

K35

74

124

48

K142

K140

K162

92

50

K18

06...

06... 07...

AUG

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numberic result is less than the value shown.

### 07067000 CURRENT RIVER AT VAN BUREN, MO

LOCATION.--Lat  $36^{\circ}59^{\circ}29^{\circ}$ , long  $91^{\circ}00^{\circ}53^{\circ}$ , in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.25, T.27 N., R.1 W., Carter County, Hydrologic Unit 11010008, near right bank on downstream side of bridge pier on U.S. Highway 60 in Van Buren, 0.4 mi downstream from Pike Creek, 4.7 mi upstream from Big Creek, and at mile 90.4.

DRAINAGE AREA. -- 1,667 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1912 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1938. WSP 897: 1939. WSP 927: Drainage area. WSP 1281: 1929.

GAGE.--Water-stage recorder. Datum of gage is 442.78 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 1, 1926, nonrecording gage at site 100 ft downstream at datum 3.00 ft higher; Sept. 1, 1926, to Oct. 19, 1934, nonrecording gage and Oct. 20, 1934, to Sept. 30, 1939, water-stage recorder, at present site and datum 3.00 ft higher.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

REMARKS.--Records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1904, reached a stage of 29.0 ft, present datum, from floodmarks.

		DISCHAF	RGE, CUBI	C FEET PEF		WATER Y		BER 2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	534	585	1150	1050	8750	1290	3170	3610	3070	1320	1140	895
2	519	599	1090	1010	7990	1340	2940	3520	2860	1290	1050	873
3	523	599	973	971	5190	1700	2710	3300	2670	1320	1050	e858
4	524	588	882	940	4080	2140	2460	3070	2540	1280	1030	858
5	540	578	821	920	3420	2170	2280	2820	2630	1250	1010	849
6	561	575	823	928	2990	2040	2150	2650	2660	1230	990	837
7	549	573	819	907	2670	1930	2130	3510	2400	1200	991	830
8	536	571	802	881	2390	1850	6840	28100	2240	1180	962	827
9	533	566	765	866	2170	7060	10100	53100	2170	1160	944	821
10	560	563	734	857	1980	10700	6710	17500	2250	1250	935	812
11	608	564	714	843	1810	6590	5260	10200	2180	2010	952	804
12	643	561	733	823	1660	5930	4510	7940	2220	1870	987	801
13	657	559	863	812	1540	5560	4230	19400	2290	1770	1110	794
14	679	559	1130	807	1440	4810	5720	23500	2200	1380	1420	799
15	641	561	1250	794	1350	4320	8610	10100	2060	1300	1300	864
16	631	559	1820	780	1300	4630	6070	7750	1950	1300	1180	840
17	620	558	8460	773	1240	4770	5050	24300	1870	1250	1100	905
18	600	556	9620	777	1180	4250	4600	40200	1780	1210	1040	980
19	593	561	5700	805	1230	5290	4160	16800	1700	1360	1030	888
20	589	560	4160	793	1990	14600	3860	9960	1650	3880	1030	953
21	588	554	3340	775	2520	12600	3950	7910	1600	2600	1070	994
22	580	553	2780	768	2370	7650	4480	6790	1550	1730	1100	939
23	582	558	2410	798	2080	6100	4070	6040	1510	1460	1050	890
24	624	650	2100	1140	1870	5220	4740	5470	1480	1340	1050	846
25	685	687	1850	1620	1720	5060	6000	5000	1460	1270	1030	823
26 27 28 29 30 31	652 626 609 595 589 584	688 668 700 831 1060	1650 1500 1380 1280 1180 1110	1890 1620 1430 1300 1220 2350	1610 1480 1360 	5570 4990 4500 4160 3810 3480	4980 4360 4160 3950 3660	4560 4190 3990 3720 3480 3280	1440 1420 1490 1400 1360	1220 1180 1140 1120 e1120 e1460	1010 1000 976 942 920 904	809 810 807 797 786
MEAN	592	612	2061	1040	2549	5036	4597	11150	2003	1466	1042	853
MAX	685	1060	9620	2350	8750	14600	10100	53100	3070	3880	1420	994
MIN	519	553	714	768	1180	1290	2130	2650	1360	1120	904	786
IN.	0.41	0.41	1.43	0.72	1.59	3.48	3.08	7.72	1.34	1.01	0.72	0.57
MEAN	1091	1710	1909	1995	2266	2842	3417	3124	2118	1326	1093	1029
MAX	4087	7171	10740	7357	6764	7148	11730	11150	9761	6465	3581	3860
(WY)	1985	1994	1983	1950	1985	1945	1927	2002	1928	1951	1927	1993
MIN	492	573	535	538	658	778	805	679	628	575	532	495
(WY)	1957	1955	1956	1956	1934	1941	1956	1936	1936	1936	1954	1956
SUMMARY	STATISTI	CS	FOR	2001 CALEN	IDAR YEAR	:	FOR 2002	WATER YEAR		FOR P	ERIOD OF	RECORD
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM INSTANTA ANNUAL I 10 PERCI 50 PERCI	MEAN ANNUAL ME DAILY ME DAILY ME DAILY MEA DAILY MEA DAILY MEA DAILY MEA PEAK FLO PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE W FLOW NCHES) DS DS		10400 519 Seg 529 8.72 1700 734 554	Feb 26 6,0ct 2 Sep 28		2760 53100 519 536 67000 22.80 506 22.48 5620 1290 589	May 9 Oct 2 Oct 1 May 9 May 9 Oct 2,3,5		1990 4811 799 72000 476 479 125000 27, 39 473 16, 22 3740 1250 693	Oct Oct Aug Nov	1985 1954 15 1993 8 1956 6 1956 21 1915 15 1993 7 1956

e Estimated

### 07067500 BIG SPRING NEAR VAN BUREN, MO

LOCATION.--Lat 36°57'05", long 90°59'36", in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.6, T.26 N., R.1 E., Carter County, Hydrologic Unit 11010008, on right bank 400 ft downstream from spring outlet, 0.4 mi upstream from Current River, and 3.5 mi southeast of Van Buren.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to September 1996, Feb. 8, 2000 to current year. Prior to Oct. 1, 1923, published as "near Chicopee". Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1311: 1922-23, 1928(M), 1929.

GAGE.--Water-stage recorder. Gage height record furnished by the National Park Service. Datum of gage is 429.08 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 19, 1971, nonrecording gage; prior to Oct. 1, 1934, at datum 1.0 ft higher. Water-stage recorder Feb. 19, 1971 to March 15, 1978, at present datum; March 1978 to September 1996, nonrecording

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor.

		DISCHAF	GE, CUBI	C PEET PER		MEAN V	EAR OCTOBE ALUES	R 2001 TO	SEPTEMBE	IR 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	269	271	366	e800	393	677	611	710	523	473	436
2	268	e261	271	362	e750	386	645	580	701	521	468	434
3	268	e261	271	356	e680	371	598	558	695	518	466	431
4 5	e265 e265	270 e261	268 265	354 351	624 576	373 381	580 571	547 538	689 686	515 513	464 462	429 432
6 7	e265 266	e260 e260	263 264	346 337	566 539	386 383	575 577	551 606	684 661	510 507	460 456	431 426
8	e265	e261	e258	344	516	394	e750	e800	647	504	455	420
9	e264	e260	e259	341	499	e750	e900	e1100	641	509	455	429
10	269	271	261	334	469	e850	e950	e950	642	510	454	428
11	269	269	260	326	457	e850	809	e900	633	521	451	422
12 13	271 270	270 270	260 267	336 335	450 434	759 679	708 676	e850 e1100	627 624	535 540	453 454	423 421
14	e263	269	275	325	426	602	e750	e1100	616	526	461	415
15	e262	267	276	313	414	568	e950	e1000	606	524	458	410
16	e262	267	374	329	403	639	e900	e960	599	521	454	413
17	e261	267	e800	324	392	683	780	e1000	591	514	455	414
18 19	267 267	267 e257	e750 e620	327 328	390 388	652 803	716 664	e1100 e1000	582 573	514 522	453 452	413 410
20	266	e257	e560	329	415	e1050	631	e920	567	649	445	400
21	267	266	533	318	404	e1050	630	e860	562	555	445	390
22	268	265	495	323	401	e1000	665	e880	556	514	444	386
23	e261	265	468	327	409	996	628	e920	551	499	444	389
24	e262	e256	453	398	407	864	680	e880	548	496	442	387
25	e261	e255	441	390	398	843	e800	e850	545	493	440	385
26	e260	e255	424	392	383	983	737	825	541	489	440	383
27 28	e260 268	e255 265	412 399	384 377	384 402	896 821	679 642	786 770	538 535	486 481	436 432	372 361
28 29	268 e261	205 e259	370	377	402	789	616	770 752	530	481	432	366
30	e261	e260	365	366		736	612	734	526	477	433	365
31	e262		370	445		707		720		477	434	
MEAN	265	263	381	350	478	698	703	831	607	514	451	408
MAX	271	271	800	445	800	1050	950	1100	710	649	473	436
MIN	260	255	258	313	383	371	571	538	526	477	432	361
IN.	3.06	2.94	4.40	4.04	4.98	8.05	7.85	9.58	6.77	5.93	5.20	4.55
STATIST	rics of MC	ONTHLY MEA	AN DATA F	OR WATER Y	EARS 1922	- 2002	, BY WATER	YEAR (WY)				
MEAN	344	388	414	440	463	520	577	563	486	417	378	353
MAX	599	769	1070	828	823	836	902	944	950	772	702	525
(WY)	1950	1986	1983	1937	1949	1945	1973	1957	1927	1928	1927	1927
MIN (WY)	243 1957	248 1957	252 1956	247 1956	279 1977	279 1936	279 1936	261 1936	253 1936	249 1936	252 1936	250 1956
,												
SUMMARY	Y STATISTI	ICS	FO	R 2001 CAI	LENDAR YEAI	?	FOR 2002	WATER YEA	R	WATER YE	ARS 1922	- 2002
LOWEST HIGHEST LOWEST	T ANNUAL M ANNUAL ME T DAILY ME DAILY MEA	EAN EAN AN		315 800 255	Dec 1' Nov 25-2' Nov 24	7 7	496 1100 <sup>a</sup> May 255	Nov 25-2		446 648 289 2000 236	Oct	1950 1936 3 1982 6 1956
ANNUAL 10 PERC 50 PERC	SEVEN-DAY RUNOFF (1 CENT EXCENTENTE EXCENT	EDS EDS		258 42.73 385 296 264	Nov 2	4	258 67.33 800 451 265	Nov 2	4	238 60.57 690 395 290	Oct	1 1956

e Estimated a During period of estimated record.

# 07067500 BIG SPRING NEAR VAN BUREN, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1973 to current year.

REMARKS.--Ozark National Scenic Riverways station from April 1975 to October 1996, Ambient Water-Quality Monitoring Network station since November 1993.

DATE	TIME	SAMPL TYPE	E	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
DEC 03	1420	ENVIRONM	ENTAL.	267	8.7	87	7.3	348	14.8				
MAR 05 05	1310 1311	ENVIRONM BLANK		381	10.2	100	7.4	293	14.3	160	32.9	18.9 E.005	.14 <.10
MAY 13	1620	ENVIRONM	ENTAL	1100	9.3	92	6.9	177	13.9				
AUG 19	1215	BLANK									<.01	<.008	<.10
19	1230	ENVIRONM	ENTAL	452	10.0	100	7.4	323	14.7	180	36.9	20.6	.80
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
DEC 03 MAR		185	186	227	0				<10		<.04	<.10	.23
05 05	1.29 .27	150 	151 	184	0	2.87	E.1 <.1	2.4 E.1	<10 <10	162 <10	<.04 <.04	<.10 <.10	.46 <.05
MAY 13 AUG		91	92	112	0				<10		<.04	E.05	.47
19 19	<.09 1.41	 164	 165	 201	0	<.30 1.79	<.1 <.1	<.1 1.9	<10 <10	<10 182	<.04 <.04	<.10 <.10	<.05 .42
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
DEC 03 MAR	<.008	<.06	<.02	<.06	K1	K2	K15						
05 05	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	<1	K1 	K1 	6 <1	19 3	E.2 <.2	<.04 <.04	<.1 <.1	<6 <6
MAY 13	<.008	<.06	<.02	<.06	K20	K60	800						
AUG 19 19	<.008	<.06 <.06	<.02 <.02	<.06 <.06	 K1	 K1	 K6	<1 1	<2 18	<.2 E.2	<.04 <.04	<.1 <.1	<6 <6

# 07067500 BIG SPRING NEAR VAN BUREN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
DEC								
03								
MAR								
05	E7	<.08	<1	<2.0	<.01	<.3		2
05	<10	<.08	<1	<2.0	<.01	<.3		6
MAY								
13								
AUG								
19	<10	<.08	<1	<2.0	<.01	<.3	<1	<1
19	<10	<.08	<1	<2.0	<.01	<.3	<1	1

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

### 07068000 CURRENT RIVER AT DONIPHAN, MO

LOCATION.--Lat  $36^{\circ}37'19"$ , long  $90^{\circ}50'51"$ , in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.27, T.23 N., R.2 E., Ripley County, Hydrologic Unit 11010008, on right bank 0.5 mi upstream from U.S. Highway 160, 1.0 mi west of Doniphan, 2.5 mi upstream from Briar Creek, and at mile 51.3.

DRAINAGE AREA. -- 2,038 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1918 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1937-38(M). WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 321.21 ft above National Geodetic Vertical Datum of 1929. Prior to July 3, 1936, nonrecording gages at several sites 0.5 mi downstream at various datums. July 1936 to Sept. 30, 1971, datum was 1.00 ft higher.

REMARKS.--Water-discharge records good. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of March 1904 reached a stage of 25.9 ft, from floodmarks, present site and datum, discharge, 130,000  ${\rm ft}^3/{\rm s}$ , from rating curve extended above 60,000  ${\rm ft}^3/{\rm s}$ .

		DISCHAF	RGE, CUBI	C FEET PER		WATER T		ER 2001 TO	SEPTEMBE	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	890 887 887 886 918	952 964 966 956 948	1730 1670 1560 1450 1370	1570 1480 1420 1380 1350	8550 11400 7580 5780 4800	1890 1820 1960 2260 2530	4520 4210 3910 3630 3400	4350 4260 4100 3890 3660	4220 3950 3690 3480 3470	2040 2010 1990 2000 1950	1800 1710 1680 1650 1610	1710 1700 1690 1670 1660
6 7 8 9 10	923 916 906 895 918	941 941 938 935 930	1340 1340 1330 1330 1280	1350 1310 1280 1250 1230	4130 3680 3340 3050 2810	2460 2350 2270 4480 11900	3220 3100 5020 10600 9730	3460 3480 15000 46300 54100	3660 3340 3120 3010 3140	1920 1890 1860 1830 1840	1590 1570 1550 1520 1500	1650 1630 1620 1620 1610
11 12 13 14 15	1020 988 1050 1060 1050	927 927 927 927 927	1240 1210 e1290 1510 1800	1200 1180 1160 1140 1120	2600 2420 2260 2130 2010	9850 7400 7000 6220 5490	7000 5960 5540 9160 10000	17700 11200 16500 27000 21900	3060 3000 3250 3080 2950	2110 2730 2790 2320 2780	1480 1510 1860 2300 2290	1600 1590 1580 1580 1610
16 17 18 19 20	1020 997 985 969 962	927 924 922 931 926	e2120 e5410 11800 10700 5960	1110 1100 1090 1110 1090	1920 1840 1790 1830 2300	5470 5770 5450 6460 14500	8750 6880 6080 5500 5120	11100 15800 38400 43900 16400	2850 2750 2630 2520 2450	2370 2190 2110 2290 2700	2170 2050 1970 1930 1900	1630 1620 1720 1710 1760
21 22 23 24 25	956 955 952 964 1010	922 919 920 1030 1040	4650 3940 3340 2940 2630	1080 1070 1850 4660 2530	2990 3110 2850 2600 2420	19500 12200 8550 7140 8000	4950 5250 5200 4900 6410	11300 9520 8350 7550 6920	2370 2320 2260 2220 2210	5090 2850 2290 2090 1970	1900 1920 1960 1980 1900	1740 1720 1680 1630 1590
26 27 28 29 30 31	1030 1000 981 964 960 954	1070 1090 1170 1340 1660	2370 2160 2000 1860 1740 1640	2630 2450 2230 2010 1970 3600	2260 2120 1990 	9360 7670 6590 5960 5440 4950	6130 5410 4970 4790 4530	6360 5850 5580 5380 4930 4580	2170 2150 2150 2180 2090	1900 1840 1790 1740 1710 2130	1880 1840 1820 1790 1750 1730	1580 1570 1570 1560 1550
MEAN MAX MIN IN.	963 1060 886 0.54	997 1660 919 0.55	2797 11800 1210 1.58	1645 4660 1070 0.93	3449 11400 1790 1.76	6545 19500 1820 3.70	3100 3.17	14160 54100 3460 8.01	2858 4220 2090 1.57	2230 5090 1710 1.26	1810 2300 1480 1.02	1638 1760 1550 0.90
								R YEAR (WY)		1001	1600	1500
MEAN MAX (WY) MIN (WY)	1637 4596 1985 872 1957	2378 8514 1994 927 1955	2687 16210 1983 950 1956	2854 9054 1949 917 1956	3127 7971 1985 1122 1934	3873 9260 1935 1218 1941	4607 16140 1927 1476 1956	4219 14160 2002 1183 1936	2970 12610 1928 1075 1936	1981 7676 1951 959 1934	1680 5001 1927 933 2001	1577 4547 1993 903 1954
SUMMARY	Y STATISTI	ICS	FOR	2001 CALEN	DAR YEAR		FOR 2002 V	WATER YEAR		WATER YE	ARS 1921	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM INSTANT ANNUAL 10 PERC	MEAN F ANNUAL MANNUAL ME T DAILY ME DAILY ME SEVEN-DAY M PEAK FIC FANEOUS LC RUNOFF (1 CENT EXCER CENT EXCER	EAN EAN AN MINIMUM OW AGE OW FLOW INCHES) EDS		14500 883 892  10.74 2370 1230 918	Feb 26 Sep 7 Sep 28		3753 54100 886 901 70400 20.58 879 25.00 7460 2000 961	May 10 Oct 4 Oct 1 May 10 May 10 Oct 4		2795 5856 1326 90000 852 852 122000 25.49 852 18.63 4980 1920	Oct Oct Dec Dec	1985 1954 12 1935 8 1956 8 1956 3 1982 3 1982 8 1956

e Estimated

# 07068000 CURRENT RIVER AT DONIPHAN, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to July 1975, October 1979 to September 1980, October 1981 to September 1982, October 1983 to June 1989, November 1992 to current year.

DATE	TIME	SAMPL: TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 24	1000	ENVIRONM	ENTAL	960	8.8	96	7.9	342	18.4				
NOV 05	1240	ENVIRONM	ENTAL	944	10.9	109	7.9	338	15.3	190	38.3	23.4	E.09
DEC 05	1335	ENVIRONM	ENTAL	1360	7.6	73	7.8	340	13.1				
JAN 14	1230	ENVIRONM	ENTAL	1140	12.4	106	7.7	294	7.9	160	32.9	19.3	.22
FEB 04	1350	ENVIRONM	ENTAL	5670	10.6	91	7.9	243	9.1				
MAR 27	1420	ENVIRONM	ENTAL	7480	10.6	96	7.9	204	10.6				
APR 16	1545	ENVIRONM	ENTAL	8250	8.9	97	7.5	209	18.7				
MAY 16	1345	ENVIRONM	ENTAL	10900	8.2	85	7.7	198	16.5	100	22.0	11.4	.25
JUN 10	1245	ENVIRONM	ENTAL	3190	7.2	81	7.9	253	20.5				
JUL 08 08	1515 1516	ENVIRONM REPLICAT		1860	6.4	80	8.1	319 	26.1	160 170	34.0 34.2	18.9 19.4	.96 .96
AUG 19	1600	ENVIRONM	ENTAL	1930	7.9	96	7.9	317	24.2				
SEP 16	1150	ENVIRONM	ENTAL	1630	8.8	101	8.0	344	21.6				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 24	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 24 NOV 05	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 24 NOV 05 DEC 05	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 24 NOV 05 DEC 05 JAN 14	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 175	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .09
OCT 24 NOV 05 DEC 05 JAN 14 FEB 04	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 175 178	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 180 194	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 220 237	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .09
OCT 24 NOV 05 DEC 05 JAN 14 FEB 04 MAR 27	DIS- SOLVED (mg/L as Na) (00930)  2.40  2.11	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  175 178 193 149	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 180 194 151	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 220 237 184	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  2.42	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 <.10 E.06	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .09 .07 .15
OCT 24 NOV 05 DEC 05 JAN 14 FEB 04 MAR 27 APR 16	DIS- SOLVED (mg/L as Na) (00930)  2.40  2.11	WATER UNFLTRD FET FIELD (mg/L as CaCC <sub>3</sub> ) (00410) 175 178 193 149 123	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 180 194 151 121	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 220 237 184 148	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  2.42  2.82	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 2.4 4.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608) <.04 <.04 E.03 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 <.10 E.06	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .09 .07 .15 .41
OCT 24 NOV 05 DEC 05 JAN 14 FEB 04 MAR 27 APR 16	DIS- SOLVED (mg/L as Na) (00930)  2.40  2.11	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410) 175 178 193 149 123 94	WATER UNFLTRD 1T FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 180 194 151 121 92	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 220 237 184 148	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  2.42  2.82	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  2.4  4.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 <.10 E.06 .13	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .09 .07 .15 .41 .42
OCT 24 NOV 05 DEC 05 JAN 14 FEB 04 MAR 27 APR 16 MAY 16 JUNN 10	DIS- SOLVED (mg/L as Na) (00930)  2.40  2.11 	WATER UNFITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  175 178 193 149 123 94 93	WATER UNFLTRD TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  179  180  194  151  121  92  94	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 220 237 184 148 112	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0  0  0  0  0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  2.42  2.82	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  2.4 4.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <12 12	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  184 146	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 <.10 E.06 .13 .32 .23	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) .09 .07 .15 .41 .42 .28 .27
OCT 24 NOV 05 DEC 05 JAN 14 FEB 04 MAR 27 APR 16 MAY 16 JUN 10 JUL 08	DIS- SOLVED (mg/L as Na) (00930) 2.40 2.11  2.20	WATER UNFLTRD FET FIELD (mg/L as CaCC <sub>3</sub> ) (00410) 175 178 193 149 123 94 93	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419) 179 180 194 151 121 92 94	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450) 218 220 237 184 148 112 115	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  2.42  2.82   1.98	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  E.1   <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) 2.4 4.1 4.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  184 146 108	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 <.10 E.06 .13 .32 .23 .16	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  .09 .07 .15 .41 .42 .28 .27 .25
OCT 24 NOV 05 DEC 05 JAN 14 FEB 04 MAR 27 APR 16 MAY 16 JUN 10 JUL 08	DIS- SOLVED (mg/L as Na) (00930)  2.40 2.11 2.20 1.47	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  175 178 193 149 123 94 93 95 129 158	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  179  180  194  151  121  92  94  94  129  159	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)  218 220 237 184 148 112 115 115 115 115	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  2.42  2.82   1.98  2.24	RIDE, DIS- SOLVED (mg/L as F) (00950)  <.1  E.1  <.1  <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  2.4 4.1 4.2 2.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)(70300)  184 146 108 175	GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + MONIA + CORGANIC TOTAL (mg/L as N) (00625)  E.08 <.10 <.10 E.06 .13 .32 .23 .16 .17 E.09	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS-SOLVED (mg/L as N) (00631)  .09 .07 .15 .41 .42 .28 .27 .25

# 07068000 CURRENT RIVER AT DONIPHAN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
OCT 24	<.008	<.06	<.02	<.06	<1	21	55						
NOV 05	<.008	<.06	<.02	<.06	K2	К3	К6	7	9	E.1	<.04	<.1	<6
DEC 05	<.008	<.06	<.02	<.06	K2	К7	K15						
JAN 14	E.004	<.06	<.02	<.06	<1	K1	K2	14	22	.2	<.04	<.1	<6
FEB 04	<.008	<.06	<.02	<.06	К8	40	K35						
MAR 27	<.008	<.06	<.02	<.06	K17	К2	K16						
APR 16	<.008	<.06	<.02	<.06	К7	K250	108						
MAY 16	E.006	<.06	<.02	E.03	K38	109	260	85	263	.3	E.02	<.1	<6
JUN 10	<.008	<.06	<.02	<.06	K30	103	81						
JUL 08 08	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	<1 <1	21 K13	K2 K2	8 2	34 31	.2	<.04 <.04	<.1 <.1	<6 <6
AUG 19	<.008	<.06	<.02	<.06	К6	K15	K14						
SEP 16	<.008	<.06	<.02	<.06	К7	K12	110						
	DA	TE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT		DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)			
	OCT 2 NOV	4	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 0 DEC	4	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)			
	OCT 2 NOV 0 DEC 0 JAN	4 5 5	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) <1			
	OCT 2 NOV 0 DEC 0 JAN 1 FEB	4 5 4	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051) <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  <1			
	OCT 2 NOV 0 DEC 0 JAN 1 FEB 0 MAR	4 5 4	DIS- SOLVED (µg/L as Fe) (01046)  <10  E8	DIS- SOLVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV-ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.0101	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  <1 2			
	OCT 2 NOV 0 DEC 0 JAN 1 FEB 0 MAR 2 APR	4 5 4 4	DIS- SOLVED (µg/L as Fe) (01046)  <10  E8	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mm) (01056)  E2.0 3.2	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.0101	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  <1 2			
	OCT 2 NOV 0 DEC 0 JAN 1 FEB 0 MAR 2 APR 1 MAY	4 5 4 4	DIS- SOLVED (µg/L as Fe) (01046)  <10  E8	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E2.0  3.2	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.0101	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  <1 2			
	OCT 2 NOV 0 DEC 0 JAN 1 FEB 0 MAR 2 APR 1 MAY 1 JUN	4 5 4 7 6 0	DIS- SOLVED (µg/L as Fe) (01046)  <10  E8 	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E2.0  3.2 	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.0101	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  <1 2			
	OCT 2 NOV 0 DEC 0 JAN 1 FEB 0 MAR 2 APR 1 MAY 1 JUN 1 JUN 1	4 5 4 7 6 0	DIS- SOLVED (µg/L as Fe) (01046)  <10  E8   102  <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08   46  E.05	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 1 1 1 1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E2.0  3.2   11.7  4.0	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01010101010101	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 <.3 <.3 <.3 <.3 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  <1 2 10 1			
	OCT 22 NOV 0 DEC 0 JAN 1 FEB 0 MAR 2 APR 1 MAY 1 JUN 1 JUN 0 0	4 5 4 4 7 6 6 0 8	DIS- SOLVED (µg/L as Fe) (01046)  <10  E8   102  <10 <10	DIS- SOLVED (µg/L as Pb) (01049) <.08 <.08 46 E.05 <.08	TOTAL RECOV-ERABLE (μg/L as Pb) (01051)  <1 <1 <1 <1 <1 <1 <1	NESE, DIS- SOLVED (μg/L as Mm) (01056)  E2.0  3.2   11.7  4.0 3.9	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  <.0101 E.01 <.01 E.0102	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 <.3 E.2 <.3 <.3 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  <1 2 10			
	OCT 2 NOV 0 DEC 0 JAN 1 FEB 0 MAR 2 APR 1 MAY 1 JUN 1 JUL 0 0 0 AUG 1 MAY 1 MA	4 5 4 7 6 6 8 9	DIS- SOLVED (µg/L as Fe) (01046)  <10  E8   102  <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08   46  E.05	TOTAL RECOV- ERABLE (μg/L as Pb) (01051)  <1 1 1 1 1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E2.0  3.2   11.7  4.0	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  <.01010101010101	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 <.3 <.3 <.3 <.3 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV-ERABLE (µg/L as Zn) (01092)  <1 2 10 1			

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.  $<--Numeric \ result$  is less than the value shown.

### 07068510 LITTLE BLACK RIVER BELOW FAIRDEALING, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°37'54", long 90°34'31", in NE  $^{1}\!\!/_{4}$  SW  $^{1}\!\!/_{4}$  NE  $^{1}\!\!/_{4}$  sec.24, T.23 N., R.4 W., Butler County, Hydrologic Unit 11010008, approximately 5.0 mi below Beaver Dam Creek and 3.1 mi southeast of Fairdealing on Ball Mill Bridge.

DRAINAGE AREA. -- 194 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1980 to September 1986, November 1999 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURE: May 1981 to September 1986. SUSPENDED-SEDIMENT DISCHARGE: July 1980 to September 1986.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURE: Minimum 30.0 °C several days in July 1980; minimum 0.0 °C on many days.
SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 643 mg/L, Aug. 16, 1982; minimum daily mean, 1 mg/L on many days.
SUSPENDED-SEDIMENT LOAD: Maximum daily, 11,100 tons, Dec. 2, 1982; minimum daily, 0.12 tons, Dec. 19, 1982.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 05	1415	ENVIRONM	ENTAL	73	10.9	109	7.5	338	15.3	160	34.1	19.3	.57
JAN 14	1430	ENVIRONM	ENTAL	89	11.5	103	7.2	223	9.8				
MAR 27	1055	ENVIRONM		2820	10.9	90	7.2	53	7.1				
MAY 16	0945	ENVIRONM		554	7.9	83	7.1	91	17.5	44	9.39	4.90	.64
JUL 08	1715	ENVIRONM		45	4.6	59	7.7	263	28.1				
SEP 16	1340	ENVIRONM		49	6.0	71	7.6	285	22.8				
						. –							
DATE	SODIUM, DIS- SOLVED (mg/L as Na)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	CHLO- RIDE, DIS- SOLVED (mg/L as C1)	FLUO- RIDE, DIS- SOLVED (mg/L as F)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> )	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
	(00930)	(00410)	(00419)	(00450)	(00447)	(00940)	(00950)	(00945)	(00530)	(70300)	(00608)	(00625)	(00631)
NOV 05 JAN	2.45	156	156	191	0	2.81	<.1	2.8	26	172	<.04	.19	<.05
14 MAR		109	109	133	0				<10		<.04	E.09	.14
27 MAY		19	17	21	0				14		<.04	.34	.08
16 JUL	1.55	39	37	45	0	1.52	<.1	3.6	19	51	<.04	.34	.09
08 SEP		128	129	157	0				<10		<.04	.18	.07
16		142	143	175	0				<10		<.04	.14	E.02
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
NOV 05	<.008	<.06	E.01	E.04	44	64	80	15	79	. 4	<.04	<.1	<6
JAN 14	<.008	<.06	<.02	<.06	K12	33	K15						
MAR 27	<.008	<.06	E.01	.06	960	1120	1060						
MAY 16	E.004	<.06	E.01	E.04	130	192	213	207	194	.5	<.04	<.1	<6
JUL 08	<.008	<.06	.02	<.06	30	K70	K20	207	194				
SEP 16	<.008	<.06	<.02	<.06	68	68	K10						

# 07068510 LITTLE BLACK RIVER BELOW FAIRDEALING, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
05	140	E.06	<1	78.7	<.01	<.3		1
JAN	110	2.00	-=	, , , ,				_
14								
MAR								
27								
MAY								
16	252	.32	M	43.5	E.01	<.3		5
JUL								
08								
SEP								
16								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

### 07071000 GREER SPRING AT GREER, MO

LOCATION.--Lat  $36^\circ47^\circ11^*$ , long  $91^\circ20^\circ53^*$ , in SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.36, T.25 N., R.4 W., Oregon County, Hydrologic Unit 11010011, on right bank 300 ft downstream from lower outlet of spring, 1 mi north of Greer, and 1 mi upstream from Eleven Point River.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August to December 1904, October 1921 to current year. August to December 1904, gage height and discharge measurements only. October to December 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 564.00 ft above National Geodetic Vertical Datum of 1929. Aug. 10 to Dec. 31, 1904, nonrecording gage at site 250 ft downstream at different datum; Nov. 17, 1921, to June 25, 1934, nonrecording gage at site 250 ft downstream at datum 0.74 ft lower than present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

 ${\tt REMARKS.--Water-discharge\ records\ fair.\ Occasional\ runoff\ from\ drainage\ area\ of\ 2.97\ mi^2\ included\ in\ record.}$ 

		DISCHAR	GE, CUBIC	. FEET PER		MEAN VA		JR 2001 10	SEP LEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	113	119	217	485	245	576	564	565	465	413	366
2	116	112	116	205	476	246	571	558	563	463	410	363
3	116	110	116	199	460	265	566	554	561	459	406	361
4	116	109	113	193	432	270	558	546	557	455	402	358
5	116	111	113	187	403	269	551	545	557	453	400	355
6	114	112	113	182	379	266	544	540	556	449	396	352
7	113	112	114	175	362	265	539	539	552	444	392	352
8	113	111	115	171	349	262	667	782	551	440	389	348
9	114	110	113	168	340	469	655	658	547	437	386	346
10	115	111	113	162	330	557	625	616	545	434	384	343
11	116	111	113	158	317	555	608	587	545	433	383	343
12	116	110	114	156	308	549	590	584	543	431	380	339
13	118	110	126	152	298	542	586	681	539	429	390	338
14	118	111	129	150	287	533	799	631	535	427	439	336
15	116	110	129	145	279	527	734	598	533	424	441	333
16	115	110	185	144	271	534	700	587	529	422	432	331
17	113	110	421	140	264	533	684	657	527	420	420	329
18	115	110	437	137	258	525	665	672	523	416	412	327
19	116	110	409	136	257	600	638	634	522	427	410	327
20	115	110	372	134	293	784	620	613	517	470	404	324
21	113	110	346	133	305	695	612	592	510	476	397	323
22	114	111	330	130	294	648	596	586	504	471	390	320
23	116	113	315	131	285	625	586	586	500	465	387	316
24	116	114	301	190	279	602	585	582	496	458	383	314
25	113	111	290	198	273	592	580	580	491	451	389	311
26 27 28 29 30 31	111 110 110 110 110 112	111 110 111 118 123	278 267 257 245 232 224	190 185 179 173 167 267	264 256 250 	657 626 601 583 582 580	580 578 575 570 569	580 578 575 574 570 569	488 483 478 474 467	444 438 432 427 422 417	388 382 378 374 370 368	310 310 306 303 301
MEAN MAX MIN	114 118 110	112 123 109	215 437 113	170 267 130	323 485 250	503 784 245	610 799 539	597 782 539 YEAR (WY)	525 565 467	442 476 416	397 441 368	333 366 301
MEAN	258	283	305	327	347	396	445	443	401	336	296	269
MAX	448	586	750	648	652	674	724	776	861	611	563	503
(WY)	1985	1985	1928	1928	1949	1975	1927	1927	1927	1945	1927	1928
MIN	111	111	113	108	144	152	180	143	140	127	122	120
(WY)	1957	1955	1956	1956	1981	1981	1936	1936	1936	1936	1936	1955
SUMMARY	Y STATISTI	CS	FOR 2	001 CALE	NDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YE	ARS 1922	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC	MEAN  F ANNUAL ME ANNUAL ME DAILY ME SEVEN-DAY FEAK FLO FANEOUS LO CENT EXCEE CENT EXCEE	AN AN N MINIMUM W GE W FLOW DS		184 614 109 110  299 156 113	Feb 26 Nov 4 Nov 15		799 109 110 1600 2.80 107 587 374 113	Apr 14 Nov 4 Nov 15 May 8 May 8 Nov 3-5		342 566 174 1010 104 105 1770 2.97 104 546 322 168	Nov 1 Nov 1 Dec Dec	1928 1956 3 1982 16 1956 13 1956 3 1982 3 1982 16 1956

# 07071000 GREER SPRING AT GREER, MO--Continued

# WATER-QUALITY RECORDS

PERIOD OF RECORD. -- November 1993 to current year.

DEC 03 MAR 18 MAY 20 AUG 26	TIME 1100 1310 1135 1210	SAMPI TYPE ENVIRONA ENVIRONA ENVIRONA ENVIRONA	E MENTAL MENTAL	DIS- CHARGE, INST. (cubic feet per second) (00061) 118 522 610 389	OXYGEN, DIS- SOLVED (mg/L) (00300) 7.1 8.6 8.6 8.7	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301) 72 86 84 87	pH WATER WHOLE FIELD (stand- ard units) (00400) 7.5 7.2 7.0	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095) 366 218 176 310	TEMPER-ATURE WATER (deg C) (00010)  14.8  14.1  13.6  14.3	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900) 210 110 77 170	CALCIUM DIS- SOLVED (mg/L as Ca) (00915) 42.8 22.3 16.4 35.1	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925) 24.3 12.2 8.77	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935) .55 .76 E.10
DATE  DEC 03 MAR	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	CaCO <sub>3</sub> ) (00410)	CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	as C1) (00940) 7.52	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO <sub>2</sub> ) (00955)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)
18 MAY	1.93	106	106	130	0	3.02	<.1		2.6	<10	127	<.04	.15
20 AUG	2.48	83	84	103	0	2.28	<.1		2.5	<10	104	<.04	.10
26	1.43	150	151	185	0	2.63	<.1		2.0	<10	171	<.04	<.10
DATE	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µM-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BARIUM, DIS- SOLVED (µg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)
DEC 03 MAR	.46	<.008	<.06	E.01	<.06	К1	<1	K2	8	13	. 4		
18 MAY	.88	<.008	E.03	<.02	E.05	K25	K40	K52	67	211	.3		
20 AUG	.74	<.008	<.06	E.01	<.06	44	K73	325	50	166	<.2		
26	1.00	<.008	<.06	E.01	<.06	K10	37	LA	1	39	.3		
DATE	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COBALT, DIS- SOLVED (µg/L as Co) (01035)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	LITHIUM DIS- SOLVED (µg/L as Li) (01130)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	MOLYB- DENUM, DIS- SOLVED (µg/L as Mo) (01060)	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)
DEC 03	.08	<.1			E5	<10	.25	<1		<2.0	<.01		
MAR 18	.00	~			13	-10	.23	-1					
	- 01	_ 1			-6	20	17	I/u		3 3	- n1		
MAY	<.04	<.1			<6	38	.17	M		3.3	<.01		
MAY 20 AUG 26	<.04 <.04 E.02	<.1 <.1 <.1	 		<6 <6 <6	38 40 <10	.17	M M <1		3.3 4.2 <2.0	<.01 <.01 <.01		

### 07071000 GREER SPRING AT GREER, MO--Continued

DATE	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	STRON- TIUM, DIS- SOLVED (µg/L as Sr) (01080)	VANA- DIUM, DIS- SOLVED (µg/L as V) (01085)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS- SOLVED (µg/L) (34253)	ATRA- ZINE, WATER, DISS, REC (µg/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µg/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)
DEC	П 2	35.4			3	. 002	. 004	. 000	. 005	. 007	. 010	. 000	- 041
03 MAR 18	E.2	35.4			4	<.002 <.006	<.004	<.002 <.004	<.005 <.005	<.007 <.007	<.010 <.010	<.002 <.002	<.041 <.041
MAY 20	<.3				4	<.006	<.006	<.004	<.005	.138	<.010	<.002	<.041
AUG 26	E.2			2	2	<.006	<.006	<.004	<.005	E.007	<.010	<.002	<.041
20	E.Z			2	2	<.000	<.000	V.004	<.003	E.007	<.010	<.002	V.041
DATE	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µg/L) (04040)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	DI- ELDRIN DIS- SOLVED (µg/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS- SOLVED (µg/L) (39341)
DEC 03	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
MAR 18	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
MAY 20	<.020	<.005	<.018	<.003	E.018	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
AUG 26	<.020	<.005	<.018	<.003	E.004	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
DATE	LIN- URON WATER FLIRD 0.7 µ GF, REC (µg/L) (82666)	MALA- THION, DIS- SOLVED (µg/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA- THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA- THION, DIS- SOLVED (µg/L) (39542)	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)
DEC 03	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
MAR 18	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006
MAY 20 AUG	<.035	<.027	<.050	<.006	E.005	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006
26	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006
DATE	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI- MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
DEC 03 MAR	<.011	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02	<.005	<.002	<.009
18 MAY	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
20 AUG	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
26	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA--Laboratory accident.

### 07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO

LOCATION.--Lat 36°38'55", long 91°12'03", in NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.17, T.23 N., R.2 W., Oregon County, Hydrologic Unit 11010011, on downstream side of right pier of main truss of bridge on U.S. Highway 160, 7.0 mi southwest of Bardley, 7.5 mi upstream from Fredericks Fork, and at mile 53.7.

DRAINAGE AREA.--793 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to current year. October 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS. -- WSP 827: 1927-28, 1935. WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 410.84 ft above National Geodetic Vertical Datum of 1929. Prior to June 26, 1934, nonrecording gage at site 100 ft upstream at datum 0.06 ft higher; June 26, 1934, to Oct. 19, 1939, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage, 19.7 ft, August 1915, from floodmarks, discharge, 44,000 ft $^3$ /s, from rating curve extended above 25,000 ft $^3$ /s.

		DISCHARG	E, CUBIC	FEET PER		WATER Y	EAR OCTOBER ALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	187	268	374	3370	430	1460	1110	1410	791	665	543
2	184	192	241	359	1620	442	1380	1080	1360	777	655	536
3	184	186	225	348	1250	463	1280	1030	1320	766	641	529
4	184	183	216	335	1060	490	1180	1000	1290	757	629	526
5	194	183	206	330	928	487	1120	968	1300	746	618	518
6	189	182	216	329	850	479	1070	952	1330	732	610	511
7	184	183	214	314	789	471	1050	991	1240	718	605	506
8	183	183	229	305	729	463	3250	12300	1190	709	594	501
9	183	181	227	300	688	1730	3490	15500	1180	701	586	497
10	191	181	220	295	655	2210	2240	4840	1200	695	580	495
11	208	181	214	285	613	1550	1880	3210	1160	691	573	494
12	202	180	219	280	584	1600	1700	2630	1120	704	571	488
13	220	180	232	275	555	1520	1600	7290	1110	714	664	483
14	212	180	278	273	527	1400	6110	5470	1070	685	1910	480
15	204	181	301	265	509	1290	4170	3240	1040	721	1030	496
16	199	179	499	262	491	1710	2540	2650	1020	713	850	495
17	192	179	2100	258	470	1590	2120	5890	1030	690	776	485
18	191	180	1580	255	453	1370	1880	6420	998	687	729	e480
19	192	183	1130	259	467	2770	1750	3820	964	905	709	e550
20	193	180	907	252	570	9370	1640	2960	938	1230	677	e500
21	192	179	774	250	603	5440	1570	2530	915	1010	650	e560
22	191	179	695	244	569	2870	1480	2280	893	883	630	e500
23	193	181	633	256	539	2270	1410	2110	881	823	615	465
24	197	213	583	566	522	1980	1370	1980	870	794	622	449
25	195	204	547	629	507	1970	1300	1870	865	756	639	445
26 27 28 29 30 31	189 185 184 184 184 185	202 193 216 252 290	513 488 464 437 410 390	529 473 437 411 386 716	484 459 442 	3300 2670 2210 1950 1740 1580	1250 1220 1200 1140 1120	1760 1680 1620 1570 1510 1450	849 841 856 846 811	739 717 697 682 673 667	627 606 589 575 563 552	445 449 444 437 433
MEAN	192	192	505	350	761	1930	1866	3346	1063	760	688	491
MAX	220	290	2100	716	3370	9370	6110	15500	1410	1230	1910	560
MIN	183	179	206	244	442	430	1050	952	811	667	552	433
IN.	0.28	0.27	0.73	0.51	1.00	2.81	2.63	4.87	1.50	1.11	1.00	0.69
MEAN	422	593	708	785	835	1071	1311	1171	882	607	487	433
MAX	1291	2082	4048	3007	2223	3556	5037	3346	3107	1559	1354	1183
(WY)	1985	1994	1983	1985	1949	1945	1927	2002	1928	1951	1927	1975
MIN	168	176	170	159	224	264	340	266	245	213	199	181
(WY)	1957	1957	1956	1956	1963	1981	1981	1936	1936	1936	1936	1956
SUMMARY	STATISTIC	CS	FOF	2001 CAL	ENDAR YEA	AR.	FOR 2002 V	WATER YE	AR	WATER YE	ARS 1922	- 2002
LOWEST ANIUAL ANNUAL ANIUAL ANIUAL ANIUAL ANIUAL ANIUAL 10 PERC.	MEAN ANNUAL ME ANNUAL ME DAILY MEA DAILY MEA SEVEN-DAY PEAK FLOV PEAK STA ANEOUS LOV RUNOFF (I) ENT EXCEEI ENT EXCEEI	AN AN N MINIMUM W SE W FLOW NCHES) OS		317 2100 179 Nov 1 18044 519 247 186	Dec 1 6,17,21,2 Nov 1	22 L2	1015 15500 179 Nov 16 27700 16.43 178 Sev 17.38 1970 615 190	May 5,17,21, Nov May May veral Da	22 12 9 9	775 1782 303 26800 155 157 49800 21.64 152 13.27 1420 552 263	Jan 2 Jan 2 Dec Dec	1985 2001 4 1927 26 1956 21 1956 3 1982 3 1982 27 1956

e Estimated

# 07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO--Continued (Ambient Water-Quality Monitoring Network)

# WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1993 to current year.

DATE	TIME	SAMPL: TYPE	E	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 26 26	1205 1210	BLANK ENVIRONM	ENTAL	 198	 8.5	 79	 8.0	 362	 11.3	 190	 38.6	22.0	 <.10
JAN 07	1140	ENVIRONM	ENTAL	315	12.1	104	7.5	327	8.4				
MAR 21	1030	ENVIRONM	ENTAL	5280	9.4	86	7.4	158	11.1				
MAY 21	1020	ENVIRONM	ENTAL	2550	9.0	89	7.4	204	14.0	90	19.2	10.2	.11
JUL 22	1200	ENVIRONM	ENTAL	877	10.2	115	7.9	326	19.4				
SEP 16	1155	ENVIRONM	ENTAL	499	9.5	102	7.7	342	18.6				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 26 26	 2.27	 199	 201	 245	 0	 2.78	 E.1	2.5	<10 <10	 202	E.02	<.10 E.07	<.05 .24
JAN 07		153	153	187	0				<10		<.04	<.10	.69
MAR 21		72	73	89	0				69		<.04	.43	.46
MAY 21	2.37	103	102	125	0	1.81	<.1	2.6	<10	123	<.04	.15	. 43
JUL 22		170	170	208	0				<10		<.04	E.08	.60
SEP 16		163	163	199	0				<10		<.04	E.09	.60
					·								
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
NOV 26 26 JAN	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	 K1	 K6	 K15	6 6	8 11	<.2	<.04 <.04	<.1 <.1	<6 <6
07 MAR	<.008	<.06	<.02	<.06	K1	K3	K3						
MAR 21 MAY	E.006	E.03	.02	.09	K210	1000	747						
21	.012	<.06	<.02	<.06	K53	184	306	40	128	<.2	E.02	<.1	<6
JUL 22	E.005	<.06	<.02	<.06	K14	68	K31						
SEP 16	<.008	<.06	<.02	<.06	К2	K13	К6						

# 07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
26	<10	<.08	<1	<2.0	<.01	<.3		3
26	E7	<.08	<1	3.8	<.01	<.3		3 3
JAN								
07								
MAR								
21								
MAY								
21	54	.98	3	9.6	<.01	<.3		4
JUL								
22								
SEP								
16								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

### 07185765 SPRING RIVER AT CARTHAGE, MO

LOCATION.--Lat 37°11'11", long 94°19'56", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.33, T.29 N., R.31 W., Jasper County, Hydrologic Unit 11070207, on left downstream wingwall of St. Francis Street bridge 0.8 mi northwest of junction with Highway 96 in Carthage.

DRAINAGE AREA. -- 425 mi<sup>2</sup>.

PERIOD OF REOCRD.--October 1966 to Sept. 30, 1980, May 23, 2001 to current year. Occasional discharge measurements 1951-1954. Intermittent gage readings since Oct. 31, 1945, collected by Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is unknown. Jan. 26, 1967 to September 1980, gage located approximately 0.75 mi upstream, at datum of 923.68 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 26, 1967, nonrecording gage at site 0.87 mi upstream of current site, at former datum.

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 18, 1943, reached a stage of 22.0 ft by highwater mark 1 mi upstream.

EXTREMES FOR CURRENT YEAR.-- For period May 23 to Sept. 30, maximum discharge 598  $\mathrm{ft}^3/\mathrm{s}$ , June 3, gage height, 4.27  $\mathrm{ft}$ ; minimum, 33  $\mathrm{ft}^3/\mathrm{s}$ , Sept. 6 and 7.

DAY			DISCHARGE	, CUBIC	FEET PER			YEAR OCTOBER VALUES	R 2000 TO	SEPTEMBER	2001		
2	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2	1									163	147	110	42
4													
5	3									282	127	91	40
66	4									225	116	81	38
7	5									191	111	77	36
7	_									1.67	1.07	71	2.4
8 145 91 86 44 49 134 89 84 52 10 134 80 87 36 64 11 14 133 86 73 64 11 15 133 86 73 64 11 15 133 86 73 64 11 15 133 86 73 64 11 15 133 86 73 64 11 15 133 86 73 64 11 15 133 86 73 64 11 11 15 12 12 12 66 52 69 62 11 12 15 13 11 19 77 66 53 11 14 15 15 15 15 15 15 15 15 15 15 15 15 15													
9													
10	-												
122 1119 779 66 53 133 1111 777 61 499 144 1111 775 58 46 155 1110 775 58 46 156 1120 775 58 46 156 1120 775 58 46 157 1120 775 58 46 158 1178 80 54 46 188 1178 80 54 46 188 1178 80 54 46 189 1177 80 54 46 189 1177 80 54 46 189 1177 80 54 46 189 1177 80 74 46 199 1177 80 74 46 199 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 44 192 127 61 44 48 192 127 61 41 45 193 127 61 41 45 194 194 195 44 46 194 194 195 194 54 46 41 195 120 197 194 54 46 195 197 152 84 44 40 196 197 152 84 44 40 196 197 186 144 141 42 67 198 198 198 198 198 198 198 198 198 198													
122 1119 779 66 53 133 1111 777 61 499 144 1111 775 58 46 155 1110 775 58 46 156 1120 775 58 46 156 1120 775 58 46 157 1120 775 58 46 158 1178 80 54 46 188 1178 80 54 46 188 1178 80 54 46 189 1177 80 54 46 189 1177 80 54 46 189 1177 80 54 46 189 1177 80 74 46 199 1177 80 74 46 199 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 43 191 119 67 45 44 192 127 61 44 48 192 127 61 41 45 193 127 61 41 45 194 194 195 44 46 194 194 195 194 54 46 41 195 120 197 194 54 46 195 197 152 84 44 40 196 197 152 84 44 40 196 197 186 144 141 42 67 198 198 198 198 198 198 198 198 198 198													
13													
144													
156													
16													
17	15									128	74	53	42
17	16									129	71	54	41
18													
19													
1													
22	20									119	67	45	43
22													
23													
24													
25													
26 197 152 84 44 51 27 186 144 141 42 67 28 177 158 201 39 66 29 168 219 194 39 66 30 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 175 126 44  MEAN 176 169 144 47 64 31 176 175 126 44  MEAN 176 175 126 44  MEAN 162 98.1 60.4 48.0 MAX 101 53 39 34 IN 101 53 39 39 IN 101 53 39 34 IN 101 53 39 34 IN 101 53 39 39 IN 101 53 39 34 IN 101 53 39 39 IN 101 53 39 IN 101 53 39 IN 101 53 39 IN 104 108 IN													
27	23								212	100	33	- 11	40
28 177 158 201 39 66 29 176 169 144 39 66 30 176 169 144 47 64 31 175 169 144 47 64 31 175 169 144 47 64 31 175 169 144 47 64 31 175 126 44  MEAN 175 126 44  MEAN 157 126 44  MEAN 157 162 98.1 60.4 48.0  MAX 101 53 39 34 IN 101 53 39 34 IN. 7 1043 0.27 0.16 0.13  STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)  MEAN 231 501 389 331 429 701 545 483 418 262 131 218 MAX 561 1785 1475 908 1567 1854 1701 1186 1343 1038 296 625 (WY) 1974 1973 1979 1975 1973 1979 1974 1976 1979 1971 MIN 72.5 65.8 57.7 50.0 104 108 138 174 70.8 49.3 53.4 46.3 (WY) 1967 1977 1977 1977 1977 1977 1972 1977 1971 1972 1972	26								197	152	84	44	51
29 168 219 194 39 66 30 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 31 176 169 144 47 64 48.0 MAX 176 175 162 98.1 60.4 48.0 MAX 176 175 162 98.1 60.4 48.0 MAX 176 175 176 175 176 MIN 176 175 177 170 170 170 170 170 170 170 170 170	27								186	144	141	42	67
30	28								177	158	201	39	66
31													
MEAN													
MAX	31								175		126	44	
MAX	MEAN									162	00 1	60 4	49 N
MIN													
IN													
MEAN   231   501   389   331   429   701   545   483   418   262   131   218													
MEAN 231 501 389 331 429 701 545 483 418 262 131 218  MAX 561 1785 1475 908 1567 1854 1701 1186 1343 1038 296 625  (WY) 1974 1973 1974 1973 1975 1973 1973 1979 1974 1976 1979 1971  MIN 72.5 65.8 57.7 50.0 104 108 138 174 70.8 49.3 53.4 46.3  (WY) 1967 1977 1977 1977 1977 1972 1977 1971 1972 1972													
MAX 561 1785 1475 908 1567 1854 1701 1186 1343 1038 296 625 (WY) 1974 1973 1974 1973 1974 1975 1973 1973 1979 1974 1976 1979 1971 MIN 72.5 65.8 57.7 50.0 104 108 138 174 70.8 49.3 53.4 46.3 (WY) 1967 1977 1977 1977 1977 1972 1977 1971 1972 1972	STATISTI	ICS OF MOI	THLY MEAN	DATA FO	R PERIOD (	OF RECORD	, BY W	NATER YEAR (V	WY)				
(WY)       1974       1973       1974       1973       1975       1973       1973       1979       1974       1976       1979       1971         MIN       72.5       65.8       57.7       50.0       104       108       138       174       70.8       49.3       53.4       46.3         (WY)       1967       1977       1977       1972       1971       1971       1972       1972       1972       1972       1980         SUMMARY STATISTICS       FOR PERIOD OF RECORD         ANNUAL MEAN       390         HIGHEST ANNUAL MEAN       836       1973         LOWEST ANNUAL MEAN       168       1977         HIGHEST DAILY MEAN       11800       Nov 25 1973         LOWEST DAILY MEAN       34       Sep 6 2001         ANNUAL SEVEN-DAY MINIMUM       39       Sep 1 2001         MAXIMUM PEAK STAGE       17.15       Nov 1 1972         INSTANTANEOUS LOW FLOW       33       Sep 6,7 2001         ANNUAL RUNOFF (INCHES)       12.46         10 PERCENT EXCEEDS       749         50 PERCENT EXCEEDS       210													
MIN 72.5 65.8 57.7 50.0 104 108 138 174 70.8 49.3 53.4 46.3 (WY) 1967 1977 1977 1977 1972 1977 1971 1972 1972													
(WY)     1967     1977     1977     1972     1972     1971     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1972     1973     1973     1973     1974													
SUMMARY STATISTICS FOR PERIOD OF RECORD  ANNUAL MEAN 390 HIGHEST ANNUAL MEAN 836 1973 LOWEST ANNUAL MEAN 168 1977 HIGHEST DAILY MEAN 11800 Nov 25 1973 LOWEST DAILY MEAN 34 Sep 6 2001 ANNUAL SEVEN-DAY MINIMUM 39 Sep 1 2001 MAXIMUM PEAK FLOW 24800 Nov 1 1972 MAXIMUM PEAK STAGE 17.15 Nov 1 1972 INSTANTANEOUS LOW FLOW 33 Sep 6,7 2001 ANNUAL RUNOFF (INCHES) 12.46 10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210													
ANNUAL MEAN 390 HIGHEST ANNUAL MEAN 836 1973 LOWEST ANNUAL MEAN 168 1977 HIGHEST DAILLY MEAN 11800 Nov 25 1973 LOWEST DAILLY MEAN 34 Sep 6 2001 ANNUAL SEVEN-DAY MINIMUM 39 Sep 1 2001 MAXIMUM PEAK FLOW 24800 Nov 1 1972 MAXIMUM PEAK STAGE 17.15 Nov 1 1972 INSTANTANEOUS LOW FLOW 33 Sep 6,7 2001 ANNUAL RUNOFF (INCHES) 12.46 10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210				1977				1977	19/1	1972	1972	1972	1900
HIGHEST ANNUAL MEAN 836 1973 LOWEST ANNUAL MEAN 168 1977 HIGHEST DAILY MEAN 11800 Nov 25 1973 LOWEST DAILY MEAN 34 Sep 6 2001 ANNUAL SEVEN-DAY MINIMUM 39 Sep 1 2001 MAXIMUM PEAK FLOW 24800 Nov 1 1972 MAXIMUM PEAK STAGE 17.15 Nov 1 1972 INSTANTANEOUS LOW FLOW 33 Sep 6,7 2001 ANNUAL RUNOFF (INCHES) 12.46 10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210													
HIGHEST DAILY MEAN 11800 Nov 25 1973 LOWEST DAILY MEAN 34 Sep 6 2001 ANNUAL SEVEN-DAY MINIMUM 39 Sep 1 2001 MAXIMUM PEAK FLOW 24800 Nov 1 1972 MAXIMUM PEAK STAGE 17.15 Nov 1 1972 INSTANTANEOUS LOW FLOW 33 Sep 6,7 2001 ANNUAL RUNOFF (INCHES) 12.46 10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210			EAN				1973						
LOWEST DAILY MEAN 34 Sep 6 2001 ANNUAL SEVEN-DAY MINIMUM 39 Sep 1 2001 MAXIMUM PEAK FLOW 24800 Nov 1 1972 MAXIMUM PEAK STAGE 17.15 Nov 1 1972 INSTANTANEOUS LOW FLOW 33 Sep 6,7 2001 ANNUAL RUNOFF (INCHES) 12.46 10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210							1977						
LOWEST DAILY MEAN 34 Sep 6 2001 ANNUAL SEVEN-DAY MINIMUM 39 Sep 1 2001 MAXIMUM PEAK FLOW 24800 Nov 1 1972 MAXIMUM PEAK STAGE 17.15 Nov 1 1972 INSTANTANEOUS LOW FLOW 33 Sep 6,7 2001 ANNUAL RUNOFF (INCHES) 12.46 10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210	HIGHEST	DAILY MEA	AN		11800	Nov 25	1973						
MAXIMUM PEAK FLOW     24800     Nov 1 1972       MAXIMUM PEAK STAGE     17.15     Nov 1 1972       INSTANTANEOUS LOW FLOW     33     Sep 6,7 2001       ANNUAL RUNOFF (INCHES)     12.46       10 PERCENT EXCEEDS     749       50 PERCENT EXCEEDS     210	LOWEST I	DAILY MEAN	1		34								
MAXIMUM PEAK STAGE 17.15 Nov 1 1972 INSTANTANEOUS LOW FLOW 33 Sep 6,7 2001 ANNUAL RUNOFF (INCHES) 12.46 10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210													
INSTANTANEOUS LOW FLOW 33 Sep 6,7 2001 ANNUAL RUNOFF (INCHES) 12.46 10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210													
ANNUAL RUNOFF (INCHES) 12.46 10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210													
10 PERCENT EXCEEDS 749 50 PERCENT EXCEEDS 210						Sep 6,7	200I						
50 PERCENT EXCEEDS 210													

### 07185765 SPRING RIVER AT CARTHAGE, MO--Continued

LOCATION.--Lat 37°11'11", long 94°19'56", in SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.33, T.29 N., R.31 W., Jasper County, Hydrologic Unit 11070207, on left downstream wingwall of St. Francis Street bridge 0.8 mi northwest of junction with Highway 96 in Carthage.

DRAINAGE AREA. -- 425 mi<sup>2</sup>.

PERIOD OF REOCRD.--October 1966 to Sept. 30, 1980, May 23, 2001 to current year. Occasional discharge measurements 1951-1954. Intermittent gage readings since Oct. 31, 1945, collected by Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is unknown. Jan. 26, 1967 to September 1980, gage located approximately 0.75 mi upstream, at datum of 923.68 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 26, 1967, nonrecording gage at site 0.87 mi upstream of current site, at former datum.

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 18, 1943, reached a stage of 22.0 ft by highwater mark 1 mi upstream.

		DISCHAR	RGE, CUBIO	C FEET PEI		WATER YI MEAN V		R 2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	93	136	239	1450	263	419	382	858	319	181	100
2	62	225	143	228	1020	298	400	361	795	311	171	98
3	63	314	146	218	839	322	376	335	740	316	166	102
4	62	276	145	210	728	315	353	315	692	311	159	100
5	104	241	142	205	642	326	339	300	666	302	155	96
6 7 8 9	86 86 85 108 2880	215 194 179 165 153	137 131 126 120 116	200 194 186 182 178	593 558 520 489 457	400 436 428 419 396	326 323 336 360 349	285 591 11200 9980 3210	647 600 562 806 842	282 264 252 249 239	154 164 166 151 150	95 90 87 86 85
11	1490	143	113	171	423	378	331	1560	621	262	147	83
12	447	136	132	165	402	368	321	1750	791	262	143	80
13	342	129	185	160	382	356	341	4850	806	543	145	79
14	271	122	247	156	361	345	453	2220	1370	356	147	84
15	228	117	269	151	347	333	427	1440	848	275	144	84
16	199	112	295	147	332	319	380	1240	686	245	136	83
17	178	109	879	142	317	306	361	2970	612	261	150	85
18	162	112	992	140	304	297	338	3760	562	274	148	80
19	149	121	724	140	313	305	331	1810	522	400	157	109
20	138	111	586	136	356	376	894	1420	489	453	144	101
21	128	108	513	133	336	419	1360	1230	461	344	135	89
22	120	107	467	130	313	384	838	1100	434	277	126	83
23	117	107	424	131	303	373	658	1010	415	287	120	77
24	128	109	387	131	296	373	572	2430	402	263	123	76
25	151	129	360	129	286	831	510	3220	386	237	119	74
26 27 28 29 30 31	131 119 110 104 99 96	142 139 134 132 132	337 318 302 285 266 251	125 123 121 120 178 1640	275 265 258 	781 592 537 506 475 443	483 477 454 412 384	1370 1150 1040 1240 1090 943	441 400 375 353 331	222 211 198 192 191 187	119 119 112 108 105 102	71 70 70 68 64
MEAN	274	150	312	210	470	410	464	2123	617	283	141	85.0
MAX	2880	314	992	1640	1450	831	1360	11200	1370	543	181	109
MIN	60	93	113	120	258	263	321	285	331	187	102	64
IN.	0.74	0.39	0.85	0.57	1.15	1.11	1.22	5.76	1.62	0.77	0.38	0.22
MEAN	234	477	384	323	432	682	540	592	431	263	131	210
MAX	561	1785	1475	908	1567	1854	1701	2123	1343	1038	296	625
(WY)	1974	1973	1974	1973	1975	1973	1973	2002	1974	1976	1979	1971
MIN	72.5	65.8	57.7	50.0	104	108	138	174	70.8	49.3	53.4	46.3
(WY)	1967	1977	1977	1977	1977	1972	1977	1971	1972	1972	1972	1980
SUMMARY	STATIST	ics			FOR	2002 WA	TER YEAR			FOR PE	ERIOD OF	RECORD
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY ME DEAK FLC PEAK STE ANEOUS LC RUNOFF (1) RUNT EXCEE ENT EXCEE ENT EXCEE	CAN CAN AN MINIMUM OW AGE OW FLOW CINCHES) CDS			20 14	463 1200 60 70 0000 <sup>a</sup> 1.97 58 4.79 844 274 100	May 8 Oct 1 Sep 24 May 8 May 8 Oct 1			395 836 168 11800 34 39 24800 17.15 <sup>b</sup> 33 12.62 754 213 78	Nov Sep Sep Nov Nov Sep	1973 1977 25 1973 6 2001 1 1972 1 1972 1 1972 6 2001

 $_{\text{b}}^{\text{a}}$  From rating extended above 11,000  $\text{ft}^{3}/\text{s.}$  Former datum.

### 07186000 SPRING RIVER NEAR WACO, MO

LOCATION.--Lat  $37^{\circ}14^{\circ}44^{\circ}$ , long  $94^{\circ}33^{\circ}58^{\circ}$ , on line between SE  $\frac{1}{2}$  sec.7 and NE  $\frac{1}{2}$  sec.18, T.29 N., R.33 W., Jasper County, Hydrologic Unit 11070207, on downstream side of left pier of county highway bridge, 0.8 mi downstream from Blackberry Creek, 1.5 mi east of Waco, and 47.6 mi upstream from mouth.

DRAINAGE AREA. -- 1,164 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1924 to current year.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 833.23 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 23, 1935, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBIC	FEET PER		WATER Y	EAR OCTOBER ALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e108	e204	e183	305	7500	363	626	624	1140	379	186	94
2	e108	2370	e189	287	4640	540	584	577	1030	365	172	93
3	e108	1600	e192	273	2040	795	544	516	948	351	163	93
4	e108	771	e193	265	1280	740	502	466	873	346	156	96
5	560	528	e189	246	1080	747	468	431	815	337	152	93
6	1400	414	e185	240	968	1830	447	409	787	320	152	93
7	508	347	e181	236	905	1730	438	632	741	293	150	91
8	e189	303	e179	233	844	1160	454	18100	693	287	156	85
9	304	265	e176	228	779	929	492	32900	2460	277	362	83
10	6850	241	e173	224	720	827	507	24100	3890	273	140	85
11	7080	221	e170	218	659	718	475	15200	1520	266	142	84
12	2880	214	e185	211	617	661	448	5380	4610	277	137	82
13	1020	e196	214	207	580	620	429	12700	3560	282	141	79
14	589	e185	338	202	547	585	524	11600	5080	563	143	80
15	444	e181	432	199	513	547	584	6110	2340	339	141	82
16	360	e175	477	198	485	509	514	3580	1320	307	137	82
17	312	e173	1080	198	456	475	487	8710	1010	299	136	82
18	278	e189	1730	196	436	453	457	11200	866	308	181	84
19	252	e189	1260	195	454	457	436	7120	766	313	151	94
20	235	e186	898	e192	604	530	861	3270	695	398	146	126
21	221	e178	737	e189	658	649	2730	1870	635	450	138	98
22	e208	e167	654	e186	579	648	1940	1560	585	369	132	86
23	e198	e162	589	e188	508	561	1110	1370	540	465	126	84
24	214	e165	532	e186	462	528	872	7990	507	563	125	79
25	212	e186	483	e183	429	928	748	12100	478	475	124	77
26 27 28 29 30 31	e198 e191 e185 e181 e173 e175	e192 e194 e191 e186 e180	444 419 399 372 346 323	e180 e176 e173 e174 354 8410	403 382 362 	1560 1190 899 804 734 670	689 708 1100 1030 725	5080 2530 1680 1570 1540 1290	474 614 543 455 407	359 284 e245 220 212 200	118 116 111 104 100 98	73 70 68 67 64
MEAN	834	358	449	482	1068	787	731	6523	1346	336	146	84.9
MAX	7080	2370	1730	8410	7500	1830	2730	32900	5080	563	362	126
MIN	108	162	170	173	362	363	429	409	407	200	98	64
IN.	0.83	0.34	0.44	0.48	0.96	0.78	0.70	6.46	1.29	0.33	0.14	0.08
MEAN	667	946	712	712	944	1215	1465	1610	1400	708	428	555
MAX	6997	6726	4704	3222	6372	5809	7542	11640	5521	4323	7812	10260
(WY)	1942	1986	1993	1973	1985	1973	1927	1943	1928	1976	1927	1993
MIN	21.0	30.5	33.3	29.7	31.0	33.6	38.2	120	73.4	15.2	7.71	22.0
(WY)	1957	1954	1964	1964	1964	1954	1956	1932	1954	1954	1954	1956
SUMMARY	Y STATISTI	CS	FOF	2001 CAL	ENDAR YEA	AR	FOR 2002	WATER YEA	AR	WATER YE	ARS 1924	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MINSTANT ANNUAL 10 PERC 50 PERC	MEAN  T ANNUAL M ANNUAL ME T DAILY MEA SEVEN-DAY M PEAK FIC M PEAK STA FANEOUS LC RUNOFF (I ENT EXCEE CENT EXCEE	CAN CAN LIN MINIMUM OW LGE OW FLOW CNCHES) CDS		754  18700 73 77 8.80 1540 272 88	Feb 2 Sep Sep	7	32900 64 71 35900 24.74 61 12.84 1730 382 110	May Sep : Sep : May May Sep :	30 24 9 9	940 3093 61.4 108000 4.5 5.0 151000 <sup>a</sup> 34.06 4.2 10.97 1810 300 66	Aug Sep Sep Sep	1993 1954 25 1993 28 1954 2 1954 26 1993 26 1993 28 1954

e Estimated  $^{\rm a}$  From rating extended above 85,000  ${\rm ft}^3/{\rm s}$ .

# 07186480 CENTER CREEK NEAR SMITHFIELD, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°09'20", long 94°36'10", in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.14, T.28 N., R.34 W., Jasper County, Hydrologic Unit 11070207, approximately 1.0 mi above the mouth of Center Creek, 1.0 mi south of Smithfield on county road.

DRAINAGE AREA. -- 303 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1968 to July 1975, July 1977 to June 1989, April 1993 to August 1995, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPLE TYPE	3	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 28 28	0830 0900	BLANK ENVIRONME	ד ע בנועב	 79	 10.9	 94	 7.8	 432	 7.7	 200	.09 74.2	.011 3.92	<.10 1.17
JAN 08	0845	ENVIRONME		105	13.6	104	7.8	264	2.9				
08 FEB 12	0900 0855	BLANK ENVIRONME	ENTAL	263	12.6	104	7.1	351	6.1				
12 MAR 12	0856 1300	BLANK BLANK											
12 APR 16	1355 1430	ENVIRONME BLANK	ENTAL	273	12.1	111	8.0	365	10.2				
16 MAY	1445	ENVIRONME	ENTAL	192	9.8	113	8.1	372	20.4				
22 22 JUN	0845 1010	BLANK ENVIRONME	ENTAL	973	8.3	 86	8.0	314	15.8	150	.09 54.6	.010 2.56	<.10 1.51
18 18 JUL	1145 1230	BLANK ENVIRONME	ENTAL	453	9.7	110	7.7	337	20.0				
23 23 SEP	1500 1600	BLANK ENVIRONME	ENTAL	 349	9.2	 117	7.7	342	26.2	 150	.03 57.2	E.006 2.43	<.10 3.35
10	1445	ENVIRONME	ENTAL	51	10.6	137	8.1	384	27.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 28 28	DIS- SOLVED (mg/L as Na)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> )	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> )	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> )	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
NOV 28 28 JAN 08	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 28 28 JAN 08 08 FEB 12	DIS- SOLVED (mg/L as Na) (00930)	WATER UNFLITED FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  150 133	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>2</sub> ) (00447)  0	RIDE, DIS- SOLVED (mg/L as C1) (00940) <.30 11.8	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) E.1 45.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 20 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 E.03	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  <.10 .14 .15	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 2.02 3.15
NOV 28 28 JAN 08 08 FEB 12	DIS- SOLVED (mg/L as Na) (00930) .49 7.83	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  150  133 169	WATER UNFLITRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  150  134 170	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>2</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940) <.30 11.8	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) E.1 45.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608) <.04 <.04 E.03 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625) <.10 .14 .15 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 2.02 3.15 <.05 E3.11
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12	DIS- SOLVED (mg/L as Na) (00930) . 49 7.83	WATER UNFLITRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  150  133 169	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  150 134  170 	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940) <.30 11.8	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) E.1 45.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  <.10 .14 .15 <.10 .12 <.08 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 2.02 3.15 <.05 E3.11 <.05 <.05
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 12 APR 16	DIS- SOLVED (mg/L as Na) (00930) .49 7.83	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  150  133 169 124	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  150  134 170 124	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940) <.30 11.8	RIDE, DIS- SOLVED (mg/L as F) (00950) <.1 .2  	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) E.1 45.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  <.10 .14 .15 <.10 .12 <.08  <.10 .27 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 2.02 3.15 <.05  E3.11 <.05 <.05 2.42 <.05
NOV 28 28 JAN 08 68 FEB 12 12 MAR 12 APR 16 16 MAY 22	DIS- SOLVED (mg/L as Na) (00930) . 49 7.83	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  150  133 169 124 134	WATER UNFLITED IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  150  134 170 124 134	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940) <.30 11.8        <.30	RIDE, DIS- SOLVED (mg/L as F) (00950) <.1 .2         	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) E.1 45.5	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) <10 262       <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	GEN, AM- MONTA + ORGANIC TOTAL (mg/L as N) (00625)  <.10 .14 .15 <.10 .27 <.08 <.10 .27 <.10 .21 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 2.02 3.15 <.05 <.05 <.05 2.42 <.05 1.88 <.05
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 12 APR 16 16 MAY 22 2UN 18	DIS- SOLVED (mg/L as Na) (00930)  .49 7.83	WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)  150  133 169 124 134 116	WATER UNFLITED TT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)  150  134 170 124 134 117	BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)  <.30 11.8  <.30 6.13	RIDE, DIS- SOLVED (mg/L as F) (00950) <.1 .2             	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945) E.1 45.5      3 21.7	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 20 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300) <10 262             10 190	GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONTA + ORGANIC TOTAL (mg/L as N) (00625)  <.10 .14 .15 <.10 .27 <.08 <.10 .27 <.10 .21 <.10 .21 <.10 .21 <.10 .21 <.10 .22 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  <.05 2.02 3.15 <.05 <.05 2.42 <.05 1.88 <.05 2.04 <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05

# 07186480 CENTER CREEK NEAR SMITHFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 28 28 JAN	<.008 E.004	<.06 .08	<.02 .07	<.06 .10	 K10	 K86	 40	5 10	7 30	<.2	<.04	<.1 1.2	<6 <6
08	E.005	E.06 <.06	.06 <.02	.07 <.06	41	190	45 						
FEB 12 12	E.004 <.006	E.06	E.05	.07 <.06	K20 	K24	40						
MAR 12 12	<.008 E.004	<.06 E.04	<.02	<.06 E.04	 K3	 K1	 K5						
APR 16 16	<.008 .011	<.06 .06	<.02	<.06 E.06	 LA	 36	 K16						
MAY 22 22	<.008	<.06 E.06	<.02	<.06 .09	 110	 156	 264	<1 53	<2 290	<.2	<.04 1.45	<.1 2.4	<6 <6
JUN 18 18	<.008 E.005	<.06 .07	<.02	<.06 .09	 68	 98	 80						
JUL 23 23	<.008 E.007	<.06 .12	<.02	<.06 .20	 590	 2700	 5600	<1 3	<2 579	<.2	<.04 1.59	<.1 5.7	<6 E3
SEP 10	E.005	.15	.14	.16	68	К4	20						
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	1,4-DI- CHLORO- BENZENE DISSOLV (µg/L) (34572)	1METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	26DIMET NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	2METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	3-BETA- COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 28	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	CHLORO- BENZENE DISSOLV (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLTERD REC (µg/L)
NOV 28 28 JAN 08	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049) <.08 .34	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056) <2.0 30.3	TOTAL RECOV- ERABLE (µg/L as Hg) (71900) E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	CHLORO- BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLITERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 28 28 JAN 08 5EB	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049) <.08 .34	TOTAL RECOV- ERABLE (µg/L as Pb) (01051) <1 2	NESE, DIS- SOLVED (μg/L as Mn) (01056) <2.0 30.3	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145) <.3 <.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 371	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 28 28 JAN 08 08 FEB 12	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049) <.08 .34	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056) <2.0 30.3	TOTAL RECOV- ERABLE (µg/L as Hg) (71900) E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	CHLORO- BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 28 28 JAN 08 08 FEB 12	DIS- SOLVED (µg/L as Fe) (01046) <10 23	DIS- SOLVED (µg/L as Pb) (01049) <.08 .34	TOTAL RECOV- ERABLE (µg/L as Pb) (01051) <1 2	NESE, DIS- SOLVED (µg/L as Mn) (01056) <2.0 30.3	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145) <.3 <.3	DIS- SOLVED (µg/L as Zn) (01090) <1 169 	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 371	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 28 28 JAN 08 68 FEB 12 12 MAR 12 12 APR 16	DIS- SOLVED (µg/L as Fe) (01046) <10 23  	DIS- SODIVED (µg/L as Pb) (01049) <.08 .34  	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 2	NESE, DIS- SOLVED (µg/L as Mn) (01056) <2.0 30.3	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145) <.3 <.3	DIS- SOLVED (µg/L as Zn) (01090)  <1 169	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 371	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 28 28 JAN 08 68 FEB 12 12 MAR 12 APR 16 16 MAY	DIS- SOLVED (µg/L as Fe) (01046) <10 23   	DIS- SOLVED (µg/L as Pb) (01049) <.08 .34  	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 2	NESE, DIS- SOLVED (µg/L as Mn) (01056) <2.0 30.3	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145) <.3 <.3   	DIS- SOLVED (µg/L as Zn) (01090) <1 169   	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 371	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLITERD REC (µg/L) (62057)
NOV 28 28 JAN 08 FEB 12 12 MAR 12 APR 16 16 MAY 22 JUN	DIS- SOLVED (µg/L as Fe) (01046) <10 23  	DIS- SODIVED (µg/L as Pb) (01049) <.08 .34  	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 2	NESE, DIS- SOLVED (µg/L as Mn) (01056) <2.0 30.3	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145) <.3 <.3	DIS- SOLVED (µg/L as Zn) (01090)  <1 169	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 371	CHLORO- BENZENE DISSOLV (μg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 12 APR 16 16 MAY 22 22 JUN 18	DIS- SOLVED (µg/L as Fe) (01046) <10 23       <10	DIS- SODIVED (µg/L as Pb) (01049) <.08 .34       <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 2 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056) <2.0 30.3           <2.0	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145) <.3         	DIS- SOLVED (µg/L as Zn) (01090)  <1 169 <1	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 371 2	CHLORO- BENZENE DISSOLV (μg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 28 28 JAN 08 68 FEB 12 12 MAR 12 12 APR 16 16 MAY 22 JUN 18	DIS- SOLVED (µg/L as Fe) (01046) <10 23             	DIS- SODIVED (µg/L as Pb) (01049) <.08 .34       <.08 .84	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 2	NESE, DIS- SOLVED (µg/L as Mn) (01056) <2.0 30.3             	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01 <.01 <.01 E.01 E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145) <.3	DIS- SOLVED (µg/L as Zn) (01090)  <1 169	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  3 371 2 387	CHLORO- BENZENE DISSOLV (μg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)

# 07186480 CENTER CREEK NEAR SMITHFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	3METHYL 1(H)- INDOLE, WATER, FLTERD REC (µg/L) (62058)	3-TERT- BHA, WATER, FLTERD REC (µg/L) (62059)	4-CUMYL PHENOL, WATER, FLTERD REC (µg/L) (62060)	4-OCTYL PHENOL, WATER, FLTERD REC (µg/L) (62061)	4-TERT- OCTYL- PHENOL, WATER, FLTERD REC (µg/L) (62062)	1HBENZO	ACETO- PHENONE WATER, FLTERD REC (µg/L) (62064)	AHT NAPH- THALENE WATER, FLTERD REC (µg/L) (62065)	ANTHRA- CENE DISSOLV (µg/L) (34221)	ANTHRA- QUINONE WATER, FLTERD REC (µg/L) (62066)	BENZO- A- PYRENE DISSOLV (µg/L) (34248)	BENZO- PHENONE WATER, FLTERD REC (µg/L) (62067)	BETA- SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)
NOV 28													
28 JAN													
08													
08 FEB													
12 12													
MAR 12													
12													
APR 16													
16 MAY													
22 22	 <1	 <5	 <1	 <1	 <1	<2	 <.5	 <.5	 <.5	 <.5	 <.5	 <.5	 <2
JUN 18													
18	<1	<5	<1	<1	<1	<2	<.5	<.5	<.5	<.5	<.5	<.5	<2
JUL 23													
23 SEP	<1	<5	<1	<1	<1	<2	<.5	<.5	<.5	<.5	<.5	M	M
10													
DATE	BISPHE- NOL A, WATER, FLTERD REC (µg/L) (62069)	BRO- MACIL, WATER, DISS, REC (µg/L) (04029)	BROMO- FORM DISSOLV (µg/L) (34288)	CAF- FEINE, WATER FLTRD REC (µg/L) (50305)	CAMPHOR WATER, FLTERD REC (µg/L) (62070)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBA- ZOLE, WATER, FLTERD REC (µg/L) (62071)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CHOLES- TEROL, WATER, FLTERD REC (µg/L) (62072)	COT- ININE, WATER, FLTERD REC (µg/L) (62005)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	D-LIMO- NENE, WATER, FLTERD REC (µg/L) (62073)	FLUOR- ANTHENE DISSOLV (µg/L) (34377)
NOV	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L)	ANTHENE DISSOLV (µg/L)
NOV 28 28 JAN 08	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLITRD REC (µg/L) (50305)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN 08 08 FEB 12	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (μg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN 08 FEB 12 MAR	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLIRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)   	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 APR 16	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLIRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN 08 FEB 12 12 MAR 12 APR	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLITRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)    	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 12 APR 16 16 MAY 22	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLITED 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (μg/L) (39572)       	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 16 APR 16 MAY 22 JUN	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 APR 16 16 MAY 22 JUN 18	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV 28 28 JAN 08 68 FEB 12 12 MAR 12 16 16 MAY 22 JUN 18 18 JUL 23	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FITRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
NOV  28 28 JAN  08 08 FEB  12 12 MAR  12 16 APR  16 MAY  22 JUN  18 JUL	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)

# 07186480 CENTER CREEK NEAR SMITHFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	HHHMCP- BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	INDOLE, WATER, FLTERD REC (µg/L) (62076)	ISOBOR- NEOL, WATER, FLTERD REC (µg/L) (62077)	ISO- PHORONE DISSOLV (µg/L) (34409)	ISO- PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	ISO- QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	MENTHOL WATER, FLTERD REC (µg/L) (62080)	METAL- AXYL WATER FLTRD REC (µg/L) (50359)	METHYL SALICY- LATE, WATER, FLTERD REC (µg/L) (62081)	METO- LACHLOR WATER DISSOLV (μg/L) (39415)	DEET, WATER, FLTERD REC (µg/L) (62082)	NAPHTH- ALENE DISSOLV (µg/L) (34443)	NONYL- PHENOL, DIETHOX WATER, FLTERD REC (µg/L) (62083)
NOV													
28													
JAN 08													
08 FEB													
12 12													
MAR 12													
12													
APR 16													
16 MAY													
22 22	 <.5	 <.5	 <.5	 <.5	 <.5	 <.5	 <.5	 <.5	 <.5	 M	 M	 <.5	 <5
JUN													
18 18	<.5	<.5	<.5	E.3	<.5	<.5	<.5	<.5	<.5	M	M	<.5	<5
JUL 23													
23 SEP	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	E.1	М	E.1	<.5	<5
10													
DATE	DI- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	MONO- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	PARA- CRESOL, WATER, FLTERD REC (µg/L) (62084)	PARA- NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	PENTA- CHLORO- PHENOL DISSOLV (µg/L) (34459)	PHENAN -THRENE DISSOLV (µg/L) (34462)	PHENOL WATER FILTRD (µg/L) (34466)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PYRENE DISSOLV (µg/L) (34470)	STIGMA- STANOL, WATER, FLTERD REC (µg/L) (62086)	TETRA- CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	FYROL CEF, WATER, FLTERD REC (µg/L) (62087)	FYROL PCF, WATER, FLTERD REC (µg/L) (62088)
NOV	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L)	NONYL- PHENOL, WATER, FLTERD REC (µg/L)	CHLORO- PHENOL DISSOLV (µg/L)	-THRENE DISSOLV (µg/L)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (µg/L)	DISSOLV (µg/L)	STANOL, WATER, FLTERD REC (µg/L)	CHLORO- ETHY- LENE DISSOLV (µg/L)	CEF, WATER, FLTERD REC (µg/L)	PCF, WATER, FLTERD REC (µg/L)
NOV 28 28 JAN 08	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (μg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLITERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28 JAN	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLITERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28 JAN 08 08 FEB 12	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (μg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLITERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28 JAN 08 08 FEB 12 12 MAR	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28 JAN 08 08 12 12 MAR 12 12	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)   	METON, WATER, DISS, REC (μg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 12 APR 16	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO-ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 APR	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO-PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 16 APR 16 MAY 22	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO-ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 12 APR 16 16 MAY 22 22 JUN 18	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO-ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 28 28 JAN 08 08 FEB 12 12 MAR 12 12 APR 16 16 MAY 22 JUN 18	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)

# 07186480 CENTER CREEK NEAR SMITHFIELD, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE			CITRATE WATER, FLTERD REC (µg/L)	TRIPHNL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	
NOV					
28					
28					
JAN					
08					
08					
FEB					
12					
12					
MAR					
12					
12					
APR					
16					
16					
MAY					
22	<.5	<1	<.5	<.5	<.5
JUN	<.5	< 1	<.5	<.5	<.5
18					
18	<.5	<1	<.5	<.5	<.5
JUL	<.5	< T	<.5	<.5	<.5
23					
23	<.5	<1	<.5	E.1	<.5
SEP	`	~1	~.5	ъ.т	٠.٥
10					
±0					

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA--Laboratory accident.

# 07186600 TURKEY CREEK NEAR JOPLIN, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°07'15", long 94°34'55", in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec.25, T.28 N., R.34 W., Jasper County, Hydrologic Unit 11070207, approximately 3.0 mi northwest of Joplin on County Highway P, 2.5 mi upstream from the mouth of Turkey Creek.

DRAINAGE AREA. -- 41.8 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1963 to September 1977, November 1999 to current year.

DATE	TIME	SAMPLI TYPE	<u> </u>	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 27	1500	ENVIRONME	ENTAL	23	11.0	104	7.6	619	11.6	260	93.6	5.80	6.79
JAN 08	1025	ENVIRONME	ENTAL	22	11.5	96	7.5	618	6.1				
FEB 11	1530	ENVIRONM	ENTAL	49	12.3	109	7.2	535	9.0				
MAR 12	1510	ENVIRONME	ENTAL	48	11.6	113	8.0	563	12.4				
APR 17	0835	ENVIRONME	ENTAL	27	6.6	72	7.8	594	17.6				
MAY 21	1515	ENVIRONME	ENTAL	116	8.3	90	7.9	465	18.2	210	75.4	4.36	2.54
JUN 18	1435	ENVIRONME	ENTAL	92	7.1	83	7.6	475	21.2				
JUL 24	0910	ENVIRONM	ENTAL	42	5.7	69	7.7	486	23.6	210	75.3	4.42	5.38
SEP 10	1315	ENVIRONME	ENTAL	11	9.3	119	7.9	689	26.0				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as CaCO <sub>3</sub> ) (00419)	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
NOV 27	24.7	145	146	178	0	34.5	.2	93.8	<10	402	<.04	.60	5.45
JAN 08		163	163	199	0				<10		E.03	.41	3.21
FEB 11		136	138	168	0				<10		E.08	.55	E3.46
MAR 12		145	144	176	0				<10		<.04	.44	3.15
APR 17		150	150	183	0				<10		<.04	.56	3.31
MAY 21	10.4	133	135	164	0	12.8	E.1	64.9	<10	281	<.04	.37	1.17
JUN 18		141	143	175	0				<10		<.04	.89	1.99
JUL 24	15.1	136	135	165	0	19.1	.2	66.0	<10	305	<.04	1.2	1.90
SEP 10		143	142	173	0				<10		<.04	3.7	9.70
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
NOV 27 JAN	.032	.87	.83	.96	K27	K183	К35	6	13	.6	1.72	1.9	<6
08 FEB	<.008	.62	.57	.62	K27	110	54						
11 MAR	E.017	.54	E.51	.55	K11	105	46						
12 APR	<.008	.47	.47	.51	K15	K8	K8						
17	.009	.81	.74	.83	67	190	41						
MAY 21	.006	.14	.11	.16	K20	216	115	10	41	<.2	3.10	3.4	<5
JUN 18	<.008	.26	.23	.26	140	K800	80						
JUL 24 SEP	E.004	.34	.33	.35	100	K480	760	4	34	.6	2.52	2.8	<6
10	.009	1.52	1.40	1.54	53	240	83						

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# 07186600 TURKEY CREEK NEAR JOPLIN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	1,4-DI- CHLORO- BENZENE DISSOLV (µg/L) (34572)	1METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	26DIMET NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	2METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	3-BETA- COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
NOV 27	18	1.01	4	6.2	.01	.3	199	330					
JAN 08			_										
FEB													
11 MAR													
12 APR													
17 MAY													
21 JUN	19	.74	6	21.2	.01	.6	457	617	<.5	<.5	<.5	<.5	<2
18									<.5	<.5	<.5	<.5	<2
JUL 24	E7	1.23	9	13.3	.01	E.2	383	384	<.5	<.5	<.5	<.5	<2
SEP 10													
DATE	3METHYL 1(H)- INDOLE, WATER, FLITERD REC (µg/L) (62058)	3-TERT- BHA, WATER, FLTERD REC (µg/L) (62059)	4-CUMYL PHENOL, WATER, FLTERD REC (µg/L) (62060)	4-OCTYL PHENOL, WATER, FLITERD REC (µg/L) (62061)	4-TERT- OCTYL- PHENOL, WATER, FLTERD REC (µg/L) (62062)	5METHYL 1HBENZO TRIAZLE WATER, FLITERD REC (µg/L) (62063)	ACETO- PHENONE WATER, FLTERD REC (µg/L) (62064)	AHT NAPH- THALENE WATER, FLTERD REC (µg/L) (62065)	ANTHRA- CENE DISSOLV (µg/L) (34221)	ANTHRA- QUINONE WATER, FLITERD REC (µg/L) (62066)	BENZO- A- PYRENE DISSOLV (µg/L) (34248)	BENZO- PHENONE WATER, FLITERD REC (µg/L) (62067)	BETA- SITOS- TEROL, WATER, FLITERD REC (µg/L) (62068)
NOV 27													
JAN 08													
FEB													
11 MAR													
12 APR													
17 MAY													
21 JUN	<1	<5	<1	<1	<1	<2	<.5	E.1	<.5	<.5	<.5	M	<2
18 JUL	<1	<5	<1	<1	<1	<2	<.5	E.2	<.5	<.5	<.5	М	<2
24 SEP	<1	<5	<1	<1	<1	<2	<.5	E.1	<.5	<.5	<.5	M	М
10													
DATE	BISPHE- NOL A, WATER, FLTERD REC (µg/L) (62069)	BRO- MACIL, WATER, DISS, REC (µg/L) (04029)	BROMO- FORM DISSOLV (µg/L) (34288)	CAF- FEINE, WATER FLTRD REC (µg/L) (50305)	CAMPHOR WATER, FLTERD REC (µg/L) (62070)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBA- ZOLE, WATER, FLTERD REC (µg/L) (62071)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CHOLES- TEROL, WATER, FLTERD REC (µg/L) (62072)	COT- ININE, WATER, FLTERD REC (µg/L) (62005)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	D-LIMO- NENE, WATER, FLTERD REC (µg/L) (62073)	FLUOR- ANTHENE DISSOLV (µg/L) (34377)
NOV 27													
JAN													
08 FEB													
11 MAR													
12 APR													
17 MAY													
21 JUN	М	E.1	<.5	M	<.5	<1	<.5	<.5	<2	<1	M	<.5	<.5
18 JUL	<1	М	<.5	E.1	<.5	<1	<.5	<.5	<2	<1	М	<.5	<.5
24	<1	E.3	<.5	<.5	<.5	М	<.5	<.5	<2	<1	М	<.5	<.5
SEP 10													

# 07186600 TURKEY CREEK NEAR JOPLIN, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	HHHMCP- BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	INDOLE, WATER, FLTERD REC (µg/L) (62076)	ISOBOR- NEOL, WATER, FLTERD REC (µg/L) (62077)	ISO- PHORONE DISSOLV (µg/L) (34409)	ISO- PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	ISO- QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	MENTHOL WATER, FLTERD REC (µg/L) (62080)	METAL- AXYL WATER FLTRD REC (µg/L) (50359)	METHYL SALICY- LATE, WATER, FLTERD REC (µg/L) (62081)	METO- LACHLOR WATER DISSOLV (µg/L) (39415)	DEET, WATER, FLTERD REC (µg/L) (62082)	NAPHTH- ALENE DISSOLV (µg/L) (34443)	NONYL- PHENOL, DIETHOX WATER, FLTERD REC (µg/L) (62083)
NOV													
27 JAN													
08 FEB													
11													
MAR 12													
APR 17													
MAY 21	М	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	E.1	<.5	<5
JUN 18	М	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	E.1	<.5	<5
JUL													
24 SEP	М	<.5	<.5	<.5	<.5	<.5	<.5	<.5	E.1	<.5	E.1	<.5	<5
10													
DATE	DI- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	MONO- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	PARA- CRESOL, WATER, FLTERD REC (µg/L) (62084)	PARA- NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	PENTA- CHLORO- PHENOL DISSOLV (µg/L) (34459)	PHENAN -THRENE DISSOLV (µg/L) (34462)	PHENOL WATER FILTRD (µg/L) (34466)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PYRENE DISSOLV (µg/L) (34470)	STIGMA- STANOL, WATER, FLTERD REC (µg/L) (62086)	TETRA- CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	FYROL CEF, WATER, FLTERD REC (µg/L) (62087)	FYROL PCF, WATER, FLTERD REC (µg/L) (62088)
NOV 27													
JAN													
08 FEB													
11 MAR													
12 APR													
17 MAY													
21	<1	<1	<1	<5	<2	<.5	E.2	<.5	<.5	<2	<.5	M	M
18 JUL	<1	<1	<1	<5	<2	<.5	.7	<.5	<.5	<2	<.5	M	M
24	<1	<1	<1	<5	M	<.5	1.2	<.5	<.5	М	<.5	E.1	E.1
SEP 10													
					TRIBUTL PHOS- PHATE, WATER,	TRICLO- SAN, WATER,	TRI- ETHYL CITRATE WATER,	TRIPHNL PHOS- PHATE, WATER,	TRIS(2- BUTOXE- PHOS- PHATE,				

DATE			FLTERD REC (µg/L)	TRIPHNL PHOS- PHATE, WATER, FLTERD REC (µg/L) (62092)	BUTOXE— PHOS- PHATE, WATER, FLTERD (µg/L)
NOV					
27 JAN					
08					
FEB					
11 MAR					
12					
APR 17					
MAY					
21	<.5	<1	<.5	M	E.1
JUN 18	<.5	<1	M	<.5	E.8
JUL			_		
24 SEP	E.1	<1	<.5	E.1	E.1
10					

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.</pre>

### 07186690 SHOAL CREEK AT PIONEER, MO

LOCATION.--Lat 36°49'45", long 94°02'57" in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.3, T.24 N., R.29 W., Barry County, Hydrologic Unit 11070207, on right bank on private property, 0.25 mi downstream from Highway 97 bridge.

DRAINAGE AREA.--68.3  $\mathrm{mi}^2$ .

PERIOD OF RECORD.--October 2001 to current year.

GAGE. -- Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

		DISCHARG	E, CUBIC	FEET PER		WATER YEA		2001 TO	SEPTEMBER	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	44	40	153	41	69	50	153	106	47	34
2	23	31	43	38	118	61	65	45	149	104	66	32
3	24	25	41	37	107	59	61	44	144	94	56	31
4	23	20	34	36	93	61	59	44	139	107	37	32
5	45	18	31	37	86	66	59	44	139	77	43	35
6	27	17	29	36	84	69	58	363	133	72	40	39
7	22	17	27	32	73	66	63	142	129	77	39	37
8	20	16	25	33	69	64	101	2040	128	76	40	32
9	22	17	23	36	64	62	92	730	131	76	41	35
10	45	17	22	33	55	56	86	457	141	107	39	34
11	55	16	22	30	51	57	85	221	136	96	42	33
12	44	15	33	31	50	54	80	264	140	87	64	31
13	30	15	32	32	47	53	78	500	225	78	72	32
14	22	16	34	29	46	51	78	228	217	65	77	33
15	18	16	33	26	45	47	71	194	153	58	50	33
16	18	16	114	27	43	46	67	177	141	55	44	30
17	17	16	236	25	42	45	66	1630	130	57	44	30
18	17	39	187	26	42	45	64	733	120	57	54	36
19	17	89	145	27	49	59	63	618	113	59	56	33
20	17	57	123	26	45	68	62	376	106	56	48	29
21	17	48	112	25	42	67	60	228	100	51	43	28
22	16	37	99	26	40	66	57	209	94	50	39	26
23	17	37	83	31	41	68	57	195	90	49	39	26
24	16	97	74	34	41	68	55	199	109	44	36	25
25	20	52	69	30	39	98	49	180	134	44	38	25
26	19	45	65	30	37	85	53	171	124	53	38	25
27	19	32	63	29	37	84	54	166	109	57	36	25
28	18	31	60	31	38	80	53	173	90	51	32	26
29	17	32	51	32		77	50	182	92	43	31	28
30	17	40	46	53		73	51	166	101	42	32	24
31	18		44	162		71		158		40	35	
MEAN	23.3	31.4	65.9	36.1	59.9	63.4	65.5	352	130	67.4	45.1	30.6
MAX	55	97	236	162	153	98	101	2040	225	107	77	39
MIN	16	15	22	25	37	41	49	44	90	40	31	24
~	~~~											

SUMMARY STATISTICS	FOR 2002 WATER YEAR
ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS	81.3 2040 May 8 15 Nov 12,13 16 Nov 11 6100 <sup>a</sup> May 8 10.14 May 8 15 Sep 16 143 48 22

 $<sup>^{\</sup>rm a}\,$  Discharge determined by indirect measurement.

### 07187000 SHOAL CREEK ABOVE JOPLIN, MO

LOCATION.--Lat 37°01'23", long 94°30'58", in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.34, T.27 N., R.33 W., Newton County, Hydrologic Unit 11070207, on right bank 250 ft upstream from mouth of Spring Creek, 1,400 ft downstream from bridge on State Highway 86, 0.5 mi south of city limits of Joplin, and 13.2 mi above mouth.

DRAINAGE AREA. -- 427 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1941 to current year.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 886.87 ft above National Geodetic Vertical Datum of 1929. Prior to July 21, 1966, water-stage recorder at site 1.8 mi upstream, at datum 15.5 ft higher; Apr. 21, 1924, to Nov. 6, 1941, records were collected at site about 3 mi downstream, datum unknown.

		DISCHARO	E, CUBIC	FEET PER	SECOND, W		YEAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	79	117	225	1090	248	392	318	1020	425	233	146
2	60	228	118	214	976	297	378	307	948	417	226	151
3	58	214	116	203	845	327	362	291	883	427	224	143
4	58	178	112	196	744	342	341	279	832	409	221	144
5	157	153	110	192	664	364	326	268	809	404	209	178
6	169	134	107	187	607	399	317	295	781	383	204	146
7	134	122	103	179	560	435	317	654	730	364	228	139
8	105	115	98	170	514	449	347	2240	691	348	210	133
9	103	109	95	166	479	452	400	5140	687	335	201	129
10	1370	104	91	163	448	421	390	2620	650	347	220	126
11	499	99	87	156	412	401	378	1680	618	380	231	124
12	376	94	111	152	389	392	371	1730	862	438	201	122
13	315	88	130	148	371	380	364	3740	e2400	398	195	123
14	253	85	145	143	348	366	369	2500	1620	423	205	125
15	209	86	149	138	335	355	357	1630	1180	350	202	123
16	178	84	184	135	319	336	343	1360	962	330	192	128
17	160	82	457	133	304	322	344	3090	857	322	246	130
18	146	84	750	129	291	308	326	7700	787	320	247	125
19	133	103	681	130	300	320	323	3200	729	311	206	181
20	124	125	589	127	318	349	366	2000	675	306	191	199
21	117	142	521	123	301	374	366	1640	632	294	177	152
22	108	126	470	120	287	377	350	1400	597	284	170	134
23	104	118	425	122	281	377	341	1240	566	302	166	125
24	101	113	385	130	274	379	335	1600	538	284	170	120
25	97	133	354	126	264	422	317	1750	519	270	172	117
26 27 28 29 30 31	91 88 86 84 82 80	144 127 121 119 120	327 307 291 273 254 239	122 120 116 115 196 982	253 245 239 	465 458 458 453 438 415	330 345 345 330 319	1310 1170 1100 1760 1310 1130	577 511 481 458 442	262 251 241 242 245 241	165 156 153 150 149 149	115 112 112 110 106
MEAN	184	121	264	179	445	383		1821	801	334	196	134
MAX	1370	228	750	982	1090	465		7700	2400	438	247	199
MIN	58	79	87	115	239	248		268	442	241	149	106
IN.	0.50	0.32	0.71	0.48	1.09	1.03		4.92	2.09	0.90	0.53	0.35
MEAN	291	402	357	327	392	562	650	721	578	350	215	250
MAX	1709	2034	1993	1145	1233	1961	3281	4691	2470	2049	2337	1872
(WY)	1960	1986	1993	1973	1968	1973	1945	1943	1995	1993	1950	1993
MIN	48.3	55.4	57.3	54.9	61.7	57.9	56.0	121	81.4	47.0	37.1	47.0
(WY)	1957	1964	1964	1964	1964	1954	1954	1963	1954	1954	1954	1953
SUMMARY	STATISTI	CS	FOR	2001 CAL	ENDAR YEAR	2	FOR 2002 1	WATER YEA	AR.	WATER YEA	ARS 1942	- 2002
LOWEST ANIUAL ANNUAL MAXIMUM MAXIMUM INSTANT. ANNUAL 10 PERC.	MEAN ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY PEAK FLO PEAK STA ANEOUS LO RUNOFF (I ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE E W FLOW NCHES) DS		257 6120 58 71 8.16 446 175 93	Feb 25 Oct 3,4 Sep 28	ŀ	7700 58 84 9360 11.31 55 13.84 859 281 110	May 1 Oct 3, Oct 2 May 1 May 1 Oct 3-	4 26 .8	424 1221 77.8 36700 15 16 62100 16.80 <sup>a</sup> 12 13.50 871 236	Sep Sep May 1 May 1	1993 1954 8 1943 7 1954 1 1954 8 1943 8 1943 7 1954

e Estimated Former site and datum.

### 07188653 BIG SUGAR CREEK NEAR POWELL, MO

LOCATION.--Lat 36°36'57", long 94°10'57", in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec. 36, T.22 N., R.33 W., McDonald County, Hydrologic Unit 11070208, on left bank of county road, 1.0 mi west of Powell.

DRAINAGE AREA.--141 mi².

PERIOD OF RECORD.--May 25, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE	CAR OCTOBER	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.8 8.8 8.7 9.0	28 40 98 79 66	190 156 123 102 88	79 74 70 66 63	781 426 299 226 183	89 231 289 239 218	133 127 118 110 106	100 97 93 88 82	235 205 183 168 219	58 60 62 88 77	30 28 32 28 25	14 13 12 12 12
6 7 8 9 10	25 19 16 18 31	57 50 46 43 39	77 69 62 56 52	60 57 54 52 51	162 147 141 136 130	218 207 188 172 151	101 108 1200 666 421	92 85 924 1070 638	214 181 161 149 143	65 57 52 48 46	24 24 21 20 20	11 11 10 10 9.8
11 12 13 14 15	105 212 123 92 74	36 33 30 29 27	48 58 77 86 93	49 47 45 44 42	122 116 110 106 101	143 137 129 123 115	314 254 259 219 185	379 280 596 416 292	135 243 775 409 285	48 48 70 65 55	22 20 21 32 30	9.6 9.5 9.4 9.6 9.9
16 17 18 19 20	62 55 49 45 42	25 24 24 34 50	819 1820 756 441 298	40 39 38 38 36	97 92 88 98 118	109 103 99 199 530	161 158 147 138 132	231 5420 1450 669 454	225 188 164 145 130	50 45 44 122 83	24 23 25 22 20	11 11 10 12 12
21 22 23 24 25	38 36 39 60 52	45 41 45 147 117	226 184 155 138 126	35 34 37 92 91	117 112 110 107 104	392 287 232 199 263	124 116 119 121 113	374 311 267 275 252	117 106 97 89 83	68 58 58 51 45	19 19 18 19	10 9.3 8.7 8.2 7.7
26 27 28 29 30 31	45 40 37 35 32 30	85 67 62 66 133	116 109 102 96 89 83	84 79 74 70 85 750	97 92 88 	252 217 193 174 155 143	114 114 111 107 104	218 204 373 531 370 285	78 73 69 64 61	42 39 36 39 36 32	18 16 15 14 14	7.2 7.1 7.3 7.3 7.3
MEAN MAX MIN	47.3 212 8.7	55.5 147 24	222 1820 48	79.8 750 34	161 781 88	200 530 89	207 1200 101	546 5420 82	180 775 61	56.4 122 32	21.8 32 13	9.96 14 7.1
STATIS							BY WATER					
MEAN MAX (WY) MIN (WY)	30.4 47.3 2002 13.5 2001	54.4 55.5 2002 53.2 2001	138 222 2002 53.8 2001	92.5 105 2001 79.8 2002	281 401 2001 161 2002	155 200 2002 109 2001	122 207 2002 37.8 2001	294 546 2002 42.8 2001	264 558 2000 53.3 2001	74.0 138 2000 27.2 2001	23.9 40.5 2000 9.52 2001	10.1 10.8 2001 9.66 2000
SUMMAR	Y STATISTI	CS	FOR	2001 CAL	ENDAR YEA	R	FOR 2002	WATER YEA	R	WATER YE	ARS 2000	- 2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN 10 PER 50 PER	MEAN T ANNUAL M ANNUAL ME T DAILY ME SEVEN-DAY M PEAK FIC TANEOUS LC CENT EXCEE CENT EXCEE	CAN CAN LN MINIMUM OW LGE OW FLOW CDS CDS		91.6 3570 5.7 6.8  157 45 9.9	Feb 2 Sep Sep	7	149 5420 7.1 7.4 11000 15.70 7.1 285 83 14	May 1 Sep 2 Sep 2 May 1 May 1 Sep 25-3	7 4 7 7	112 149 74.2 6020 5.1 5.6 15500 18.95 4.5 219 52 10	Sep 2 Sep 1 Jun 1 Jun 1	2002 2001 7 2000 2000 2000 7 2000 7 2000 9 2000

### 07188885 INDIAN CREEK NEAR LANAGAN, MO

LOCATION.--Lat 36°35'57", long 94°26'58", in NW  $^1\!\!/_4$  NW  $^1\!\!/_4$  NE  $^1\!\!/_4$  sec. 36, T. 22 N., R.33 W., McDonald County, Hydrologic Unit 11070208, on downstream side of Highway EE bridge, 0.5 mi southeast of Lanagan.

DRAINAGE AREA.--239  $\mathrm{mi}^2$ .

PERIOD OF RECORD.--May 24, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

		DISCHARG	E, CUBIC	FEET PER		WATER YE MEAN V	EAR OCTOBER ALUES	2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	28 28 27 27 41	37 44 52 49 46	61 60 60 60 58	101 95 91 88 86	581 484 409 347 300	112 149 197 219 226	219 206 191 178 168	148 141 133 127 120	462 429 402 378 371	176 177 180 180 174	74 72 72 68 66	51 50 50 49 49
6 7 8 9 10	51 45 41 39 62	44 42 40 41 40	55 52 51 48 46	85 82 79 77 76	267 238 215 197 182	244 268 270 259 233	159 162 259 306 299	1480 993 5730 2260 1430	350 327 310 296 291	161 150 142 136 130	64 63 62 60	49 47 47 46 46
11 12 13 14 15	111 138 116 93 76	38 37 37 36 36	45 58 73 88 98	73 71 70 69 67	166 156 147 137	217 208 197 187 178	284 266 245 228 214	985 828 2390 1300 945	283 359 633 647 525	132 136 148 139 128	60 58 60 66 63	46 45 45 48 49
16 17 18 19 20	64 57 52 49 46	36 35 37 61 95	168 536 618 485 387	66 65 63 62	125 119 114 122 135	166 155 149 170 241	201 192 180 171 173	772 3790 3230 1270 1010	451 397 357 326 300	120 115 112 108 105	59 59 63 60 57	50 51 50 53 55
21 22 23 24 25	45 43 43 43 40	91 81 74 77 76	321 273 235 205 182	62 60 62 65 61	138 135 132 130 125	279 275 259 247 294	163 155 157 156 148	880 800 716 758 733	279 262 247 236 228	99 99 109 99 93	55 53 53 59 61	51 48 46 45 43
26 27 28 29 30 31	39 38 37 37 36 36	71 66 63 61 61	164 150 139 128 117 108	59 58 58 58 80 336	119 113 108 	321 316 299 281 259 237	151 158 162 158 152	632 577 547 638 545 498	285 232 211 196 185	88 84 81 83 83 79	57 54 52 52 51 51	43 42 42 42 39
MEAN MAX MIN	52.5 138 27	53.5 95 35	166 618 45	80.3 336 58	199 581 108	229 321 112	195 306 148	1174 5730 120	342 647 185	124 180 79	60.1 74 51	47.2 55 39
STATIST	ICS OF MO	NTHLY MEAN	DATA FOR	R WATER Y	EARS 2000	- 2002,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	49.8 52.5 2002 47.2 2001	63.3 73.1 2001 53.5 2002	110 165 2002 55.2 2001	115 150 2001 80.3 2002	439 679 2001 199 2002	244 259 2001 229 2002	148 195 2002 99.8 2001	621 1174 2002 67.2 2001	350 519 2000 190 2001	138 215 2000 75.6 2001	53.2 64.0 2000 35.5 2001	40.9 47.2 2002 32.7 2001
SUMMARY	STATISTI	CS	FOR 20	001 CALEN	OAR YEAR	F	FOR 2002 WAT	TER YEAR		WATER YE	ARS 2000 -	2002
LOWEST ANIUAL ANNUAL ANIUAL ANIUM MAXIMUM INSTANTAL 10 PERCES 10 P	MEAN ANNUAL ME ANNUAL ME DAILY MEA DAILY MEA SEVEN-DAY PEAK FLOI PEAK STA ANEOUS LOI ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE W FLOW DS		5800 27 28  275 76 34	Feb 24 Oct 3,4 Sep 28		228  5730 27 35  Unknown 10.73 27 438 113 44	May 8 Oct 3,4 Oct 1 May 8 May 8 Oct 2-5		186 228 143 5800 27 28 Known 10.80 27 Sep 326 81 38	Feb 24 Oct 3,4 Sep 28 Feb 24 Feb 24 7,0ct 2-5	2001 2001 2001 2001

# 07188950 PATTERSON CREEK NEAR TIFF CITY, MO (Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°39'45", long 94°31'54", in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  Sec.6, T.22 N., R.33 W., McDonald County, Hydrologic Unit 11070208, 6.0 mi east of Tiff City, approximately 2.7 mi south of State Highway 43 on County Road 7628.

DRAINAGE AREA.--9.73 mi<sup>2</sup>.

PERIOD OF RECORD. -- November 1999 to current year.

DATE	TIME	SAMPL TYPE		DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
NOV 27 27	1020 1021	ENVIRONM REPLICAT		1.8	9.8	89 	7.6 	329 	10.0	160 160	61.0 62.0	1.76 1.78	.98 1.40
07	1415	ENVIRONM	ENTAL	2.8	11.4	102	7.8	313	9.2				
MAR 12	1025	ENVIRONM	ENTAL	5.4	10.7	101	7.0	292	11.2				
MAY 21	1215	ENVIRONM	ENTAL	29	9.4	98	7.6	241	16.0	82	30.4	1.41	. 25
JUL 23	1130	ENVIRONM	ENTAL	4.7	8.5	96	7.8	312	20.0				
SEP 10	1110	ENVIRONM	ENTAL	2.1	8.3	92	7.8	332	18.8				
	SODIUM, DIS- SOLVED	ANC WATER UNFLTRD FET FIELD	ANC WATER UNFLTRD IT FIELD	ANC BICAR- BONATE IT FIELD	ANC CAR- BONATE IT FIELD	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SULFATE DIS- SOLVED	RESIDUE TOTAL AT 105 DEG. C, SUS-	SOLIDS, RESIDUE AT 180 DEG. C	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN,AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED
DATE	(mg/L as Na) (00930)	(mg/L as CaCO <sub>3</sub> ) (00410)	(mg/L as CaCO <sub>3</sub> ) (00419)	(mg/L as HCO <sub>3</sub> ) (00450)	(mg/L as CO <sub>3</sub> ) (00447)	(mg/L as Cl) (00940)	(mg/L as F) (00950)	(mg/L as SO <sub>4</sub> ) (00945)	PENDED (mg/L) (00530)	SOLVED (mg/L) (70300)	(mg/L as N) (00608)	(mg/L as N) (00625)	(mg/L as N) (00631)
NOV 27 27 JAN	6.19 5.80	137	140	171 	0	9.20 8.91	<.1 E.1	4.2 4.1	<10 <10	198 206	<.04 <.04	E.09 E.08	3.09 3.12
07 MAR		127	130	159	0				<10		<.04	E.09	4.03
12 MAY		98	98	120	0				<10		<.04	E.09	4.38
21	4.67	91	90	110	0	5.67	<.1	5.3	<10	147	<.04	E.10	3.92
JUL 23		132	133	162	0				<10		<.04	.11	3.40
SEP 10		135	135	164	0				<10		<.04	E.06	3.56
DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L aS Al) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER DIS- SOLVED (µg/L as Cu) (01040)
NOV 27 27	.029	<.06 <.06	<.02 <.02	<.06 .10	K15 	35 	140	9 9	20 18	E.1	<.04 <.04	<.1 <.1	<6 <6
JAN 07	E.004	<.06	E.01	<.06	<1	K11	K13						
MAR 12	<.008	<.06	E.01	<.06	K13	24	К9						
MAY 21	E.004	E.04	.03	E.03	K28	78	142	29	51	<.2	<.04	<.1	<6
JUL 23	E.006	<.06	E.02	<.06	K120	210	435						
SEP 10	E.005	<.06	E.01	<.06	K15	K14	335						

# 07188950 PATTERSON CREEK NEAR TIFF CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
NOV								
27	11	<.08	M	3.9	E.01	<.3		10
27	11	<.08	<1	3.9	E.01	<.3		18
JAN								
07								
MAR								
12								
MAY								
21	23	E.05	<1	6.6	<.01	<.3		4
JUL								
23								
SEP								
10								

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

# 07189000 ELK RIVER NEAR TIFF CITY, MO

LOCATION.--Lat  $36^\circ37^\circ53^\circ$ , long  $94^\circ35^\circ12^\circ$ , in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.22, T.22 N., R.34 W., McDonald County, Hydrologic Unit 11070208, near right abutment of bridge on State Highway 43, 0.8 mi downstream from Blackfoot Branch, 2.8 mi upstream from Buffalo Creek, 3.0 mi southeast of Tiff City, and at mile 15.8.

DRAINAGE AREA. -- 872 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1939 to current year.

REVISED RECORDS.--WSP 927: 1940. WSP 1117: Drainage area.

GAGE.--Water stage recorder. Datum of gage is 750.61 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Sept. 6, 1960 to Aug. 25, 1961, at site 100 ft downstream.

		DISCHARO	E VIA	SATELLITE,		ATER YEA MEAN VA		2001 TO :	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	235	431	492	4670	530	891	726	1370	408	240	124
2	116	242	522	465	3210	580	826	711	1230	391	227	122
3	112	256	503	442	2160	860	773	684	1110	407	215	119
4	112	282	441	422	1640	1080	721	661	1020	439	207	116
5	162	326	405	407	1320	1080	679	633	990	509	198	112
6	200	324	376	399	1130	1130	647	1620	999	512	194	108
7	236	311	352	388	993	1210	640	2410	950	436	189	103
8	226	301	333	377	895	1190	2110	6680	880	385	184	102
9	218	296	316	366	832	1110	4900	8400	819	356	177	101
10	245	288	301	358	780	1000	2950	6520	787	342	170	95
11	390	282	290	347	734	910	2140	3530	760	332	169	94
12	780	269	304	338	692	856	1710	2600	765	331	168	93
13	788	262	329	331	661	811	1440	6410	1580	338	178	90
14	631	255	381	322	630	769	1310	5230	2740	329	198	91
15	518	248	424	317	601	734	1170	3310	1670	322	223	93
16	442	246	606	309	575	697	1060	2530	1240	311	220	99
17	393	240	6540	303	551	661	977	8980	1030	298	206	105
18	361	238	6030	299	528	633	921	20600	914	326	198	102
19	334	271	3310	295	532	673	863	6210	829	553	188	121
20	314	323	2170	292	587	1440	832	3740	756	525	177	121
21	299	348	1610	287	645	2260	791	2810	698	441	167	117
22	286	336	1300	284	650	1820	754	2250	646	365	160	108
23	277	324	1070	283	639	1490	749	1880	604	402	151	102
24	274	330	912	299	627	1280	765	1740	561	361	148	97
25	272	472	816	363	611	1390	751	1780	533	325	159	91
26 27 28 29 30 31	274 267 258 248 242 238	512 437 398 377 378	741 687 640 597 557 522	387 372 360 355 386 1280	588 565 540 	1670 1530 1350 1210 1080 974	742 766 774 760 737	1540 1370 1340 1920 1970 1580	575 552 492 458 431	312 296 285 287 294 274	159 153 145 138 134 127	85 81 79 74 73
MEAN	311	314	1091	385	1021	1097	1172	3625	933	371	180	101
MAX	788	512	6540	1280	4670	2260	4900	20600	2740	553	240	124
MIN	112	235	290	283	528	530	640	633	431	274	127	73
IN.	0.41	0.40	1.44	0.51	1.22	1.45	1.50	4.79	1.19	0.49	0.24	0.13
STATIST	ICS OF MO	NTHLY MEAN	DATA	FOR WATER	YEARS 1940	- 2002,	BY WATER	YEAR (WY	)			
MEAN	418	722	773	687	897	1339	1588	1526	986	488	260	292
MAX	2938	4094	3651	2509	2971	5020	6119	8964	4245	2565	2418	2164
(WY)	1942	1975	1993	1985	1951	1945	1945	1943	1995	1976	1950	1993
MIN	25.7	49.8	58.5	55.9	70.7	75.7	145	227	78.6	14.3	12.0	30.9
(WY)	1957	1964	1964	1964	1954	1956	1956	1964	1954	1954	1954	1953
SUMMARY STATISTICS		FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1940 - 2002				
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		19800 Feb 25 79 Aug 23 83 Sep 1  9.64 1130 329 117		885  20600 May 18 73 Sep 30 83 Sep 24 33100 May 18 20.57 May 18 13.78 1690 441 136			830 1881 135 68600 5.1 5.6 137000 28.40 12.93 1750 343 88	81 1993 35 1954 00 Apr 19 1941 .1 Sep 5 1954 .6 Sep 2 1954 00 Apr 19 1941 40 Apr 19 1941 93 50 43				

# 07189000 ELK RIVER NEAR TIFF CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1962 to June 1963, November 1965 to July 1975, October 1980 to September 1981, October 1982 to June 1990, November 1992 to current year.

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	HARD- NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
OCT 24	1210	ENVIRONMENTA	AL 274	8.4	95	8.0	317	19.1				
NOV 27	0835	ENVIRONMENTA	AL 437	9.4	86	7.7	317	10.6	150	55.2	3.71	1.87
DEC 11	0900	ENVIRONMENTA	AL 290	10.9	92	7.7	318	6.9				
JAN 07	1250	ENVIRONMENTA	AL 388	12.8	105	7.5	315	5.8	160	57.2	3.31	1.71
FEB 11 11	1245 1246	ENVIRONMENTA REPLICATE	AL 734	12.5	105	7.7	294	7.0				
MAR 12	0845	ENVIRONMENTA	AL 856	11.3	108	8.1	284	12.1				
APR 16	1100	ENVIRONMENTA	AL 1060	9.9	107	8.0	272	17.8				
MAY 21	1010	ENVIRONMENTA	AL 2810	9.2	93	7.8	260	15.3	120	44.3	2.35	1.37
JUN 18	0915	ENVIRONMENTA	AL 914	7.9	92	7.9	293	21.2				
JUL 23	0900	BLANK								.02	E.004	<.10
23 AUG	0945	ENVIRONMENTA		6.0	76	7.8	304	26.2	140	52.2	2.98	2.58
26 SEP	1340	ENVIRONMENTA		9.2	121	8.0	307	27.9				
10	1000	ENVIRONMENTA	AL 95	6.1	75	7.9	318	24.6				
DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	WATER WATER WATER UNFLTRD UNF FET I FIELD FI (mg/L as (mg/CaCO <sub>3</sub> )	ANC ANC ATER BICAR- FILTRD BONATE T IT ELLD FIELD 7/L as (mg/L as (aCO <sub>3</sub> ) HCO <sub>3</sub> ) 419) (00450)		CHLO- RIDE, DIS- SOLVED (mg/L as C1) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SULFATE DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
DATE  OCT 24	DIS- SOLVED (mg/L as Na)	WATER WATER UNFLITRD UNFLITRD FET I (mg/L as (mg/L as (ng/L as (ng	TER BICAR- FLTRD BONATE T IT ELD FIELD g/L as (mg/L as acO <sub>3</sub> ) HCO <sub>3</sub> )	CAR- BONATE IT FIELD s (mg/L as CO <sub>3</sub> )	RIDE, DIS- SOLVED (mg/L as Cl)	RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLVED (mg/L as SO <sub>4</sub> )	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	GEN, AMMONIA DIS- SOLVED (mg/L as N)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N)
OCT 24 NOV 27	DIS- SOLVED (mg/L as Na) (00930)	WATER WATER UNFILTED UNFIFT OF THE CACO3 CO	ATER BICAR- FLTRD BONATE TT IT LELD FIELD J/L as (mg/L as laCO <sub>3</sub> ) HCO <sub>3</sub> ) 419) (00450)	CAR-BONATE IT FIELD s (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 24 NOV 27 DEC 11	DIS- SOLVED (mg/L as Na) (00930)	WATER WP UNFLIRD UNF FET I FIELD FI (Mg/L as (Mg CaCO <sub>3</sub> ) (OO (00410) (OO  133 1  130 1	ATER BICAR- PLITED BONATE TT IT LELLD FIELD g/L as (mg/L as aCO <sub>3</sub> ) HCO <sub>3</sub> ) 4119) (00450)	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)
OCT 24 NOV 27 DEC 11 JAN 07	DIS- SOLVED (mg/L as Na) (00930)	WATER WATER UNFILTED UNFIFT CACO (1) CO (1) CACO	ATER BICAR- FLITT BONATE T IT ELLD FIELD J/L as (mg/L as (acO <sub>3</sub> ) HCO <sub>3</sub> ) A419) (00450)  31 159 31 160	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)	RIDE, DIS- SOLVED (mg/L as F) (00950)	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530) <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) 1.38
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11	DIS- SOLVED (mg/L as Na) (00930)  6.45  5.06	WATER WATER UNFILTED UNFIFET COMPANY C	ATER BICAR- PLITED BONATE TT IT LELLD FIELD J/L as (mg/L as acO <sub>3</sub> ) (00450)  31 159 .31 160 .36 166 .36 166 .21 147	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  9.33  9.03	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1 	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  9.5  8.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTTAL (mg/L as N) (00625)  .13 E.10 .16 E.09 E.07	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.38 1.70 1.89 2.99 E2.81
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11	DIS- SOLVED (mg/L as Na) (00930)  6.45  5.06	WATER WATER UNFILTED UNFIFET UNFIFE	ATER BICAR- FLITED BONATE TT IT EELD FIELD 3/L as (mg/L as (2aCO <sub>3</sub> ) HCO <sub>3</sub> ) 4419) (00450)  31 159 31 160 36 166 36 166 36 166	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	RIDE, DIS- SOLVED (mg/L as C1) (00940)  9.33  9.03	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1  E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  9.5  8.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  186 184	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .13 E.10 .16 E.09 E.07	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631) 1.38 1.70 1.89 2.99 E2.81 E2.78
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR	DIS- SOLVED (mg/L as Na) (00930)	WATER WATER UNFLITED UNFERFORM I TELLO FILED (Mg/L as (Mg/CaCO <sub>3</sub> ) (OO410) (OO	ATER BICAR- FLITT IT ELD FIELD (Mg/L as (mg/L as (acO <sub>3</sub> ) HCO <sub>3</sub> ) (419) (00450)  31 159  31 160  36 166  36 166  21 147 19 145	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  9.33  9.03	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1  E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  9.5  8.2 	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .13 E.10 .16 E.09 E.07 E.07	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.38 1.70 1.89 2.99 E2.81 E2.78
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY	DIS- SOLVED (mg/L as Na) (00930)  6.45  5.06	WATER WATER UNFILTED UNFIFET COMMENT OF COMM	ATER BICAR- PLITED BONATE TT IT LELD FIELD 3/L as (mg/L as (2CO <sub>3</sub> ) (00450)  .31 159 .31 160 .36 166 .36 166 .21 14719 145 .22 149	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  9.33  9.03	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1  E.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  9.5  8.2	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTTAL (mg/L as N) (00625)  .13 E.10 .16 E.09 E.07 E.07 .10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.38 1.70 1.89 2.99 E2.81 E2.78 2.19 1.80
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN	DIS- SOLVED (mg/L as Na) (00930)  6.45 5.06 3.41	WATER WATER UNFLITED UNFLITED IN FIELD FI (mg/L as (mg/L	ATER BICAR- PLITED BONATE TT IT FIELD FIELD 3/L as (mg/L as (ACO_3) (00450)  3.31 159  3.31 160  3.36 166  3.36 166  3.36 166  3.31 147 1.19 145  3.22 149  3.04 127	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  9.33  9.03   4.97	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1  E.1    <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  9.5  8.2    6.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <11 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  186 184 155	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .13 E.10 .16 E.09 E.07 E.07 .10 .11	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.38 1.70 1.89 2.99 E2.81 E2.78 2.19 1.80 2.16
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN 18 JUL	DIS- SOLVED (mg/L as Na) (00930)  6.45 5.06 3.41	WATER UNFLITED UNFFET I FIELD (mg/L as (caco)) (00410) (0051) (10	ATER BICAR- PLITED BONATE TT IT LELD FIELD 3/L as (mg/L as (2CO <sub>3</sub> ) (00450)  .31 159 .31 160 .36 166 .36 166 .21 14719 145 .22 149	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  9.33  9.03   4.97	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1  E.1   <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  9.5  8.2    6.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  186 184 155	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONITA + ORGANIC TOTAL (mg/L as N) (00625)  .13 E.10 .16 E.09 E.07 E.07 .10 .11 .12 .15	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.38 1.70 1.89 2.99 E2.81 E2.78 2.19 1.80 2.16 1.95
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN 18 JUN 18 JUL 23	DIS- SOLVED (mg/L as Na) (00930)  6.45 5.06 3.41	WATER WATER UNFLITED	ATER BICAR- PLITED BONATE TT IT ELLD FIELD (/L as (mg/L as (acO <sub>3</sub> ) HCO <sub>3</sub> ) (419) (00450)  31 159  31 160  36 166  36 166  21 147 19 145  22 149  04 127	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as Cl) (00940)  9.33  9.03   4.97	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1  E.1    <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  9.5  8.2    6.0	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <11 <10 <10	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  186 184 155	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .13 E.10 .16 E.09 E.07 E.07 .10 .11	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.38 1.70 1.89 2.99 E2.81 E2.78 2.19 1.80 2.16
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN 18 JUL 23	DIS- SOLVED (mg/L as Na) (00930)  6.45 5.06 3.41 <.09	WATER UNFLITED UNFFET I FIELD FI CACO3 (00410) (00011) (10011)	ATER BICAR- PLITED BONATE TT IT ELLD FIELD 3/L as (mg/L as (ACO <sub>3</sub> ) (M0450)  31 159  31 160  36 166  36 166  36 166  31 147   19 145  22 149  04 127  25 153	CAR-BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIDE, DIS- SOLVED (mg/L as C1) (00940)  9.33 9.03 4.97 <.30	RIDE, DIS- SOLVED (mg/L as F) (00950)  E.1  E.1   <.1	DIS- SOLVED (mg/L as SO <sub>4</sub> ) (00945)  9.5  8.2   6.0  <.1	TOTAL AT 105 DEG. C, SUS- PENDED (mg/L) (00530)  <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L) (70300)  186 184 155 <10	GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)  E.03 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)  .13 E.10 .16 E.09 E.07 E.07 .10 .11 .12 .15 <.10	GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)  1.38 1.70 1.89 2.99 E2.81 E2.78 2.19 1.80 2.16 1.95 <.05

# 07189000 ELK RIVER NEAR TIFF CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM- INUM, DIS- SOLVED (µg/L as A1) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µg/L as A1) (01105)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)
OCT 24	E.004	.31	.31	.32	20	K4	К9						
NOV 27	<.008	.21	.20	.21	K10	57	68	8	16	.3	<.04	<.1	<6
DEC 11	<.008	.07	.07	.09	44	K64	21						
JAN 07	E.006	.07	.07	.08	<1	К3	K11	13	22	.2	<.04	<.1	<6
FEB 11 11	<.006 <.006	.07	E.06 E.07	.06	K1 	K3 	K2 						
MAR 12	<.008	E.06	.06	.06	23	23	К3						
APR 16	<.008	E.06	.05	.06	К5	22	24						
MAY 21 JUN	E.004	.07	.05	.08	50	160	400	19	144	<.2	<.04	<.1	<6
18 JUL	E.007	.09	.07	.09	48	115	78						
23 23	<.008 .011	<.06	<.02	<.06 .24	 29	 K83	 260	<1 1	<2 16	<.2	<.04 E.02	<.1 <.1	<6 <6
AUG 26	E.004	.21	.19	.20	K1	20	46						
SEP 10	E.004	.31	.30	.31	К5	K16	53						
DATE	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)	MERCURY TOTAL RECOV- ERABLE (μg/L as Hg) (71900)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	1,4-DI- CHLORO- BENZENE DISSOLV (µg/L) (34572)	1METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	26DIMET NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	2METHYL NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	3-BETA- COPRO- STANOL, WATER, FLITERD REC (µg/L) (62057)
DATE  OCT 24	DIS- SOLVED (µg/L as Fe)	DIS- SOLVED (µg/L as Pb)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (μg/L as Mn)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn)	CHLORO- BENZENE DISSOLV (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLTERD REC (µg/L)
OCT 24 NOV 27	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg)	NIUM, DIS- SOLVED (µg/L as Se)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	CHLORO- BENZENE DISSOLV (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLTERD REC (µg/L)
OCT 24 NOV 27 DEC 11	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	CHLORO- BENZENE DISSOLV (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLTERD REC (µg/L)
OCT 24 NOV 27 DEC 11 JAN 07	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)	CHLORO- BENZENE DISSOLV (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLTERD REC (µg/L)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11	DIS- SOLVED (µg/L as Fe) (01046)	DIS- SOLVED (µg/L as Pb) (01049)	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (µg/L as Mn) (01056)	TOTAL RECOV- ERABLE (µg/L as Hg) (71900) E.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)	DIS- SOLVED (µg/L as Zn)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092) 5	CHLORO- BENZENE DISSOLV (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	NAPH- THALENE WATER, FLTERD REC (µg/L)	COPRO- STANOL, WATER, FLTERD REC (µg/L)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR	DIS- SOLVED (µg/L as Fe) (01046) <10 <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- RERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E1.2  E1.5	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR	DIS- SOLVED (µg/L as Fe) (01046) <10 <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E1.2  E1.5	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16	DIS- SOLVED (µg/L as Fe) (01046) <10 <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E1.2  E1.5	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16	DIS- SOLVED (µg/L as Fe) (01046)  <10  <10	DIS- SOLVED (µg/L as Pb) (01049)  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E1.2  E1.5	TOTAL RECOV-ERABLE (µg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN	DIS- SOLVED (µg/L as Fe) (01046)  <10 <10 10 11	DIS- SOLVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E1.2  E1.5	TOTAL RECOV- ERABLE (μg/L as Hg) (71900)  E.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3  E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- RECOV- ERABLE (µg/L as Zn) (01092)  5 2 5 5 5	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN 18 JUL	DIS- SOLVED (µg/L as Fe) (01046)  <10  <10  19	DIS- SODIVED (µg/L as Pb) (01049)  <.08  <.08	TOTAL RECOV- ERABLE (µg/L as Pb) (01051)  <1 <1 1 1 1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E1.2  E1.5   5.4	TOTAL RECOV- ERABLE (µg/L as Hg) (71900)  E.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- ERABLE (µg/L as Zn) (01092)  5 2 5 5	CHLORO-BENZENE DISSOLV (µg/L) (34572)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN 18 JUL 23	DIS- SOLVED (µg/L as Fe) (01046)  <10 <10 19 19	DIS- SODIVED (µg/L as Pb) (01049)  <.08    .08	TOTAL RECOV- RECOV- ERABLE (µg/L as Pb) (01051)  <11 1 1 1	NESE, DIS- SOLVED (μg/L as Mn) (01056)  E1.2 E1.5  5.4 <2.0	TOTAL RECOV-ERABLE (μg/L as Hg) (71900)  E.01 <.01 <.01 <.01 <.01	NIUM, DIS- SOLVED (µg/L as Se) (01145)  <.3 E.3 E.3	DIS- SOLVED (µg/L as Zn) (01090)	TOTAL RECOV- RECOV- REABLE (µg/L as Zn) (01092)  5 2 5 5 41	CHLORO-BENZENE DISSOLV (µg/L) (34572)  <.5 <.5	NAPH- THALENE WATER, FLTERD REC (µg/L) (62054)  <.5 <.5	NAPH- THALENE WATER, FLTERD REC (µg/L) (62055)	NAPH- THALENE WATER, FLTERD REC (µg/L) (62056)	COPRO- STANOL, WATER, FLTERD REC (µg/L) (62057)

524 WHITE RIVER BASIN

# 07189000 ELK RIVER NEAR TIFF CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	3METHYL 1(H)- INDOLE, WATER, FLTERD REC (µg/L) (62058)	3-TERT- BHA, WATER, FLTERD REC (µg/L) (62059)	4-CUMYL PHENOL, WATER, FLTERD REC (µg/L) (62060)	4-OCTYL PHENOL, WATER, FLTERD REC (µg/L) (62061)	4-TERT- OCTYL- PHENOL, WATER, FLTERD REC (µg/L) (62062)	5METHYL 1HBENZO TRIAZLE WATER, FLTERD REC (µg/L) (62063)	ACETO- PHENONE WATER, FLTERD REC (µg/L) (62064)	AHT NAPH- THALENE WATER, FLTERD REC (µg/L) (62065)	ANTHRA- CENE DISSOLV (µg/L) (34221)	ANTHRA- QUINONE WATER, FLTERD REC (µg/L) (62066)	BENZO- A- PYRENE DISSOLV (µg/L) (34248)	BENZO- PHENONE WATER, FLTERD REC (µg/L) (62067)	BETA- SITOS- TEROL, WATER, FLTERD REC (µg/L) (62068)
OCT 24													
NOV 27													
DEC													
JAN													
07 FEB													
11 11													
MAR 12													
APR 16													
MAY 21	<1	<5	<1	<1	<1	<2	<.5	<.5	<.5	<.5	М	<.5	<2
JUN 18	<1	<5	<1	<1	<1	<2	<.5	<.5	<.5	<.5	<.5	<.5	<2
JUL 23													
23 AUG	<1	<5	<1	<1	<1	<2	<.5	<.5	<.5	<.5	<.5	М	<2
26 SEP													
10													
DATE	BISPHE- NOL A, WATER, FLTERD REC (µg/L) (62069)	BRO- MACIL, WATER, DISS, REC (µg/L) (04029)	BROMO- FORM DISSOLV (µg/L) (34288)	CAF- FEINE, WATER FLTRD REC (µg/L) (50305)	CAMPHOR WATER, FLTERD REC (µg/L) (62070)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBA- ZOLE, WATER, FLTERD REC (µg/L) (62071)	CHLOR- PYRIFOS DIS- SOLVED (µg/L) (38933)	CHOLES- TEROL, WATER, FLTERD REC (µg/L) (62072)	COT- ININE, WATER, FLTERD REC (µg/L) (62005)	DI- AZINON, DIS- SOLVED (µg/L) (39572)	D-LIMO- NENE, WATER, FLTERD REC (µg/L) (62073)	FLUOR- ANTHENE DISSOLV (µg/L) (34377)
OCT	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L)	ANTHENE DISSOLV (µg/L)
OCT 24 NOV	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L)	ANTHENE DISSOLV (µg/L)
OCT 24 NOV 27 DEC	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L)	ANTHENE DISSOLV (µg/L)
OCT 24 NOV 27 DEC 11	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L)
OCT 24 NOV 27 DEC 11 JAN 07 FEB	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L)	FORM DISSOLV (µg/L)	FEINE, WATER FLTRD REC (µg/L)	WATER, FLTERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L)	PYRIFOS DIS- SOLVED (µg/L)	TEROL, WATER, FLTERD REC (µg/L)	ININE, WATER, FLTERD REC (µg/L)	AZINON, DIS- SOLVED (µg/L)	NENE, WATER, FLITERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (µg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLITRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (μg/L) (34377)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)    
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21	NOL A, WATER, FLTERD REC (µg/L)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)    
OCT	NOL A, WATER, FLTERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 μ GF, REC (μg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)    	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)      
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN 18 JUN 23	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)  <.5 <.5	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)  <1 <1	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)  <.5 <.5	TEROL, WATER, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT	NOL A, WATER, FITERD REC (µg/L) (62069)	MACIL, WATER, DISS, REC (μg/L) (04029)	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLTRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)             	TEROL, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)
OCT	NOL A, WATER, FLTERD REC (μg/L) (62069)	MACIL, WATER, DISS, REC (µg/L) (04029)  <.5 <.5	FORM DISSOLV (µg/L) (34288)	FEINE, WATER FLIRD REC (µg/L) (50305)	WATER, FLITERD REC (µg/L) (62070)	BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)  <1 <1	ZOLE, WATER, FLTERD REC (µg/L) (62071)	PYRIFOS DIS- SOLVED (µg/L) (38933)	TEROL, WATER, WATER, FLTERD REC (µg/L) (62072)	ININE, WATER, FLTERD REC (µg/L) (62005)	AZINON, DIS- SOLVED (µg/L) (39572)	NENE, WATER, FLTERD REC (µg/L) (62073)	ANTHENE DISSOLV (µg/L) (34377)

# 07189000 ELK RIVER NEAR TIFF CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE	HHHMCP- BENZO- PYRAN, WATER, FLTERD REC (µg/L) (62075)	INDOLE, WATER, FLTERD REC (µg/L) (62076)	ISOBOR- NEOL, WATER, FLTERD REC (µg/L) (62077)	ISO- PHORONE DISSOLV (µg/L) (34409)	ISO- PROPYL BENZENE WATER, FLTERD REC (µg/L) (62078)	ISO- QUIN- OLINE, WATER, FLTERD REC (µg/L) (62079)	MENTHOL WATER, FLTERD REC (µg/L) (62080)	METAL- AXYL WATER FLTRD REC (µg/L) (50359)	METHYL SALICY- LATE, WATER, FLTERD REC (µg/L) (62081)	METO- LACHLOR WATER DISSOLV (μg/L) (39415)	DEET, WATER, FLTERD REC (µg/L) (62082)	NAPHTH- ALENE DISSOLV (µg/L) (34443)	NONYL- PHENOL, DIETHOX WATER, FLTERD REC (µg/L) (62083)
OCT 24													
NOV 27													
DEC 11													
JAN 07													
FEB													
11 11													
MAR 12													
APR 16													
MAY	_			_					_				
21 JUN	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	М	М	<.5	<5
18 JUL	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	E.1	<.5	<5
23													
23 AUG	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	E.1	<.5	E.3	<.5	<5
26 SEP													
10													
DATE	DI- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	MONO- ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	PARA- CRESOL, WATER, FLTERD REC (µg/L) (62084)	PARA- NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	PENTA- CHLORO- PHENOL DISSOLV (µg/L) (34459)	PHENAN -THRENE DISSOLV (µg/L) (34462)	PHENOL WATER FILTRD (µg/L) (34466)	PRO- METON, WATER, DISS, REC (µg/L) (04037)	PYRENE DISSOLV (µg/L) (34470)	STIGMA- STANOL, WATER, FLTERD REC (µg/L) (62086)	TETRA- CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	FYROL CEF, WATER, FLTERD REC (µg/L) (62087)	FYROL PCF, WATER, FLTERD REC (µg/L) (62088)
OCT	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L)	NONYL- PHENOL, WATER, FLTERD REC (µg/L)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (μg/L) (04037)	DISSOLV (µg/L)	STANOL, WATER, FLTERD REC (µg/L)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L)	NONYL- PHENOL, WATER, FLTERD REC (µg/L)	CHLORO- PHENOL DISSOLV (µg/L)	-THRENE DISSOLV (µg/L)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (µg/L)	DISSOLV (µg/L)	STANOL, WATER, FLTERD REC (µg/L)	CHLORO- ETHY- LENE DISSOLV (µg/L)	CEF, WATER, FLTERD REC (µg/L)	PCF, WATER, FLTERD REC (µg/L)
OCT 24	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L)	NONYL- PHENOL, WATER, FLTERD REC (µg/L)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (μg/L) (04037)	DISSOLV (µg/L)	STANOL, WATER, FLTERD REC (µg/L)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L)	METON, WATER, DISS, REC (μg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07	ETHOXY- OCTYL- PHENDL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L)	CRESOL, WATER, FLITERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLITERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)  	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (μg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)   	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN 18	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 MAR 12 APR 16 MAY 21 JUN	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO-PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)        7	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO-ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 11 MAR 12 APR 16 MAY 21 JUN 18 JUL 23 23	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)  <1 <1	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)	PCF, WATER, FLTERD REC (µg/L) (62088)
OCT 24 NOV 27 DEC 11 JAN 07 FEB 11 MAR 12 MAR 12 APR 16 MAY 21 JUN 18 JUL 23	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61705)  <1 <1	ETHOXY- OCTYL- PHENOL WAT FLT REC (µg/L) (61706)  <1 <1	CRESOL, WATER, FLTERD REC (µg/L) (62084)	NONYL- PHENOL, WATER, FLTERD REC (µg/L) (62085)	CHLORO- PHENOL DISSOLV (µg/L) (34459)	-THRENE DISSOLV (µg/L) (34462)	WATER FILTRD (µg/L) (34466)	METON, WATER, DISS, REC (µg/L) (04037)	DISSOLV (µg/L) (34470)	STANOL, WATER, FLTERD REC (µg/L) (62086)	CHLORO- ETHY- LENE DISSOLV (µg/L) (34476)	CEF, WATER, FLTERD REC (µg/L) (62087)  <.5 <.5	PCF, WATER, FLTERD REC (µg/L) (62088)

526 WHITE RIVER BASIN

# 07189000 ELK RIVER NEAR TIFF CITY, MO--Continued (Ambient Water-Quality Monitoring Network)

DATE		TRICLO- SAN, WATER, FLTERD REC (µg/L) (62090)	CITRATE WATER, FLTERD REC (µg/L)	PHATE, WATER, FLTERD REC (µg/L)	PHOS- PHATE, WATER, FLTERD (µg/L)
OCT 24					
NOV					
27 DEC					
11					
JAN 07					
FEB 11					
11					
MAR					
12					
APR					
16 MAY					
21	<.5	<1	<.5	<.5	<.5
JUN					
18	<.5	<1	<.5	<.5	<.5
JUL 23					
23	<.5	<1	<.5	<.5	<.5
AUG					
26					
SEP					
10					

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. M--Presence of material verified, but not quantified. <--Numeric result is less than the value shown.

#### ARKANSAS RIVER BASIN 527

### 07189100 BUFFALO CREEK AT TIFF CITY, MO

LOCATION.--Lat 36°40'15", long 94°36'14", in NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec. 4, T.22 N., R.34 W., McDonald County, Hydrologic Unit 11070208, on downstream side of Highway 76 bridge, 0.5 mi east of Tiff City.

DRAINAGE AREA.--60.8  $\mbox{mi}^{2}$ .

PERIOD OF RECORD.--May 24, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for discharges below 5  $\mathrm{ft}^3/\mathrm{s}$ , which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

		DISCHAR	GE, CUBI	C FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2001 TO S	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.6 3.2 2.8 2.8	7.0 9.5 11 9.8	16 15 14 13	26 23 21 19 18	610 384 296 218 170	35 38 41 50 56	65 60 54 50 47	83 74 66 59 53	98 87 77 68 65	20 20 20 21 24	5.3 4.5 4.7 4.8 4.1	0.48 0.63 0.62 0.43 0.25
6 7 8 9 10	15 34 35 28 32	20 17 15 13 12	11 9.9 9.6 8.9 8.0	17 16 16 15	134 106 84 69 58	72 101 108 104 88	44 46 66 99 109	778 561 1360 1210 780	58 51 46 43 40	20 20 17 17	5.5 4.9 4.0 3.4 3.1	0.29 0.26 0.27 0.28 0.23
11 12 13 14 15	39 68 81 65 50	10 10 9.4 9.1 9.0	7.9 12 14 19 27	13 13 13 12 11	50 45 40 38 35	79 73 66 62 56	112 105 95 84 76	472 528 1730 731 474	36 62 159 121 100	18 19 18 18	3.0 3.0 3.1 3.8 3.3	0.29 0.21 0.22 0.28 0.27
16 17 18 19 20	41 32 26 22 18	8.4 8.1 9.1 66 133	48 422 327 225 165	10 9.8 9.6 9.5 9.2	34 31 30 32 35	52 48 46 48 53	73 75 72 68 92	329 1270 900 553 391	84 73 62 53 44	18 17 16 14	2.6 2.5 2.1 1.6 1.4	0.28 0.17 0.11 1.9 3.5
21 22 23 24 25	16 14 13 11	87 63 50 40 33	127 104 85 72 61	8.9 8.7 9.7 10	38 42 41 41	67 72 71 70 81	116 105 101 95 85	286 220 177 243 258	38 37 33 33 30	11 10 11 10 8.9	1.3 1.1 1.1 1.4 1.6	2.3 1.3 0.83 0.54 0.42
26 27 28 29 30 31	9.4 9.2 8.4 7.9 7.3	28 23 21 18 17	52 46 42 37 32	11 11 11 14 90 1020	40 37 35 	103 102 95 88 80 72	85 85 94 95 89	186 153 137 136 126 112	30 29 26 23 21	7.7 6.4 5.9 6.2 6.9 6.2	1.4 1.8 1.1 0.70 0.55 0.41	0.59 0.74 0.86 0.70 0.54
MEAN MAX MIN	23.3 81 2.8	26.1 133 7.0	66.8 422 7.9	48.4 1020 8.7	100 610 30	70.2 108 35	81.4 116 44	466 1730 53	57.6 159 21	14.7 24 5.9	2.68 5.5 0.41	0.66 3.5 0.11
STATIST	ICS OF MO	NTHLY MEA	N DATA F	OR WATER Y	EARS 2000	- 2002,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	13.4 23.3 2002 3.38 2001	22.0 26.1 2002 17.8 2001	37.7 66.8 2002 8.57 2001	73.3 98.2 2001 48.4 2002	178 256 2001 100 2002	68.9 70.2 2002 67.5 2001	53.8 81.4 2002 26.3 2001	239 466 2002 12.2 2001	152 254 2000 57.6 2002	27.4 49.0 2000 14.7 2002	4.80 8.27 2000 2.68 2002	1.98 3.46 2001 0.66 2002
SUMMARY	STATISTI	:CS	FO	R 2001 CAL	ENDAR YEA	R	FOR 2002 1	WATER YEAR	2	WATER YEA	ARS 2000	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	MEAN ANNUAL ME DAILY ME SEVEN-DAY PEAK FLC PEAK STP ANEOUS LC ENT EXCEE ENT EXCEE	CAN CAN ON MINIMUM OW AGE OW FLOW CDS CDS		2050 1.7 1.9  110 20 3.4	Feb 2 Sep 7, Sep	8	1730 0.11 0.22 2660 7.67 0.09 133 28	May 13 Sep 18 Sep 12 May 13 May 13 Sep 17	3 2 3	66.7 80.1 53.3 2390 0.11 0.22 5500 10.23 0.09 110 19	Sep 1 Sep 1 Jun Jun	2002 2001 1 2000 8 2002 2 2002 3 2001 3 2001 7 2002



Figure 14. Location of partial-record stations.

#### DISCHARGE AT PARTIAL-RECORD STATIONS

The following table contains annual maximum discharges for crest-stage partial-record stations. A crest-stage gage is a device which will register the peak stage occurring at the station between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

		David a d	Water ye	ar 2002 m	aximum	Period o	of record	maximum
Station number and name	Location and basin characteristics	Period of record	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)
		Fabius	River Basin					
05497485 Brushy Creek near Queen City, Mo.	Lat 40°24'01", long 92°25'31", in NE 1/4 sec.35, T.65 N., R.14 W., Hydrologic Unit 07110002, Schuyler County, on downstream side of bridge	1997-	05-14-02  Record: 1997 03-31-98	12.32 <6.71 11.21	2,020 <sup>a</sup> + +	05-14-2002	12.32	2,020 <sup>a</sup>
	on State Highway E, about 7 miles east of Queen City. Drainage area 5.35 mi <sup>2</sup> , slope 23.1 ft/mi.		05-07-99 2000 06-14-01	11.49 <6.71 11.86	+			
05499200 Little Fabius	Lat 40°03'29", long 92°10'29", in SW 1/4 sec.30, T.61 N.,	1997-	05-14-02	18.17	4,660 <sup>a</sup>	05-14-2002	18.17	4,660ª
River near	R.11 W., Hydrologic Unit		Record:	16 47	2 520			
Edina, Mo.	07110003, Knox County, on downstream side of bridge on		05-28-97 04-01-98	16.47 17.45	2,530 3,630			
	State Highway 15, about 7		10-07-98	16.22	2,290			
	miles south of Edina.		06-26-00	9.86	339			
	Drainage area 23.8 mi <sup>2</sup> , slope 7.02 ft/mi.		06-05-01	16.17	2,250			
05499850 Troublesome Creek near	Lat 39°59'52", long 91°50'37", in SE 1/4 sec.13, T.60 N., R.9 W., Hydrologic Unit	1997-	05-14-02 Record:	19.98	+	05-14-2002	19.98	+
Lewistown, Mo.	07110003, Lewis County, on		04-16-97	18.37	+			
	downstream side of bridge on		04-01-98	18.43	+			
	State Highway 156, about 7 miles south of Lewistown.		10-07-98 06-26-00	19.23 14.84	+ 781			
	Drainage area 92.3 mi <sup>2</sup> , slope 4.57 ft/mi.		05-13-01	18.43	+			
		Salt R	iver Basin					
05506193 Mud Creek near	Lat 39°34'34", long 92°20'59", at center sec.10, T.55 N.,	1997-	05-10-02	15.07	6,500 <sup>a</sup>	05-10-2002	15.07	6,500 <sup>a</sup>
Moberly, Mo.	R.13 W., Hydrologic Unit 07110006, Randolph County,		Record: 04-13-97	13.57	3,120			
	on downstream side of bridge		07-04-98	13.83	3,555			
	on State Highway J, about 16		07-01-99	14.36	4,580			
	miles northeast of Moberly.		06-26-00	11.73	1,190			
	Drainage area 24.0 mi², slope 11.6 ft/mi.		06-06-01	12.89	2,180			
		Cuivre	River Basin					
05514170 Irvine Branch	Lat 39°17'24", long 91°16'07", in SW 1/4 sec.8, T.52 N.,	1997-	05-16-02	13.32	1,300 <sup>a</sup>	06-04-2001	14.31	1,900 <sup>b</sup>
near Bowling	R.3 W., Hydrologic Unit		Record:	0 00				
Green, Mo.	07110008, Pike County, on		1997 07-05-98	<8.81 13.91	+ 1,600 <sup>b</sup>			
	downstream side of bridge on State Highway Y, about 6		06-25-99	12.91	1,100			
	miles southwest of Bowling		06-26-00	11.10	502			
	Green. Drainage area 12.9 mi <sup>2</sup> , slope 26.3 ft/mi.		06-04-01	14.31	1,900 <sup>b</sup>			

Maximum discharge at crest-stage partial-record stations--continued

		David : 3	Water ye	ear 2002 ma	aximum	Period of	record ma	aximum
Station number and name	Location and basin characteristics	Period of record	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)
		Little Ta	arkio Creek B	asin				
06815530 Little Tarkio	Lat 40°24'38", long 95°16'23", in SE 1/4 sec.27, T.65 N.,	1997-	2002	<10.35	+	06-14-2001	16± <sup>C</sup>	+
Creek near Tarkio, Mo.	R.39 W., Hydrologic Unit 10240005, Atchison County,		Record:	11 56				
Tarkio, Mo.	on downstream side of bridge		05-07-97 06-15-98	11.56 12.41	+			
	on State Highway N, 7 miles		05-21-99	10.46	+			
	east of Tarkio. Drainage area 16.1 mi <sup>2</sup> , slope 19.0 ft/mi.		2000 06-14-01	<10.36 16±°	+ +			
		Platt	e River Basiı	ı				
06819025	Lat 40°03'41", long 94°42'01",	1997-	10-05-01	11.76	+	06-19-2001	18.85	+
Agee Creek near	at center sec.26, T.61 N.,							
Savannah, Mo.	R.34 W., Hydrologic Unit 10240012, Andrew County, on		Record:					
	downstream side of bridge on		1997-1998 10-05-98	<11.05	+			
	State Highway 48, 14 miles		2000	17.37 <11.05	+			
	northeast of Savannah. Drainage area 6.54 mi <sup>2</sup> , slope 24.5 ft/mi.		06-19-01	18.85	+			
		Fishir	ng River Basi	n				
06894250	Lat 39°27'29", long 94°18'22",	1997-	08-18-02	8.69	+	10-05-1998	14.39	+
New Hope Creek near Holt, Mo.	in SW 1/4 sec.30, T.54 N., R.30 W., Hydrologic Unit		Record:					
	10300101, Clinton County, on downstream side of bridge on		1997	<6.71	+			
	State Highway PP, 2 miles		06-23-98	8.79	+			
	east of Holt. Drainage area		10-05-98	14.39	+			
	$6.79 \text{ mi}^2$ , slope $28.6 \text{ ft/mi}$ .		09-23-00 06-05-01	10.91 11.88	+			
		Tabo	Creek Basin					
06895192 Tabo Creek near	Lat 39°04'40", long 93°46'12", in NW 1/4 sec.3, T.49 N.,	1997-	05-09-02	19.58	+	02-12-1999	19.80	+
Higginsville, Mo.	R.26 W., Hydrologic Unit 10300101, Lafayette County,		Record:	15 50				
P10 .	on downstream side of bridge		04-11-97 09-14-98	17.70 19.65	+			
	on State Highway FF, 2 miles		02-12-99	19.80	+			
	west of Higginsville.		06-27-00	17.63	+			
	Drainage area 24.0 mi <sup>2</sup> , slope 11.4 ft/mi.		06-06-01	18.50	+			
		Grand	d River Basin					
06896370 Big Muddy Creek	Lat 40°25'38", long 94°10'31", in NW 1/4 sec.21, T.65 N.,	1997-	2002	<8.22	+	04-08-2001	16.39	+
near Bethany,	R.29 W., Hydrologic Unit		Record:					
Mo.	10280101, Harrison County, on downstream side of bridge		04-15-97	13.38	+			
	on State Highway M, 18 miles		07-04-98 06-13-99	14.73 12.73	+			
	northwest of Bethany. Drain-		2000	<8.23	+			
	age area 29.4 mi <sup>2</sup> , slope 14.2 ft/mi.		04-08-01	16.39	+			
06897507 Marrowbone	Lat 39°49'02", long 94°05'34", in SW 1/4 sec.19, T.58 N.,	1997-	05-06-02	12.95	964	10-05-1998	17.43	+
Creek near	R.28 W., Hydrologic Unit		Record:					
Gallatin, Mo.	10280101, Daviess County, on		04-16-97	16.38	+			
	downstream side of bridge on State Highway J, 12 miles		07-04-98	17.16	+			
	southwest of Gallatin.		10-05-98 06-25-00	17.43 10.46	+ 535			
	Drainage area 17.7 mi <sup>2</sup> , slope 17.1 ft/mi.		06-25-00	16.51	+			

Maximum discharge at crest-stage partial-record stations--continued

		D. J. J.	Water y	ear 2002 n	naximum	Period of	record m	aximum
Station number and name	Location and basin characteristics	Period of record	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)
		Grand Rive	er Basin-cont	inued				
06900690	Lat 39°52′51″, long 93°19′39″,	1997-	05-10-02	14.75	+	02-08-2001	15.43	
Smokey Creek near Linneus,	in NE 1/4 sec.2, T.58 N., R.22 W., Hydrologic Unit		Record:					+
Mo.	10280103, Linn County, on		04-15-97	14.77	+			+
	downstream side of bridge on		03-19-98	14.34	+			
	State Highway B, about 7 miles west of Linneus.		10-06-98	15.13	+			
	Drainage area 10.5 mi <sup>2</sup> ,		2000	<10.63	+			
	slope 13.5 ft/mi.		02-08-01	15.43	+			
06901100 Locust Creek at Reger, Mo.	Lat 40°08'31", long 93°11'07", in NE 1/4 SW 1/4 SE 1/4 sec.30, T.62 N., R.20 W., Hydrologic Unit 10280201, Sullivan County, on downstream side of State Highway 6 and 0.3 mile east of Reger. Datum of gage is 774.67 ft above sea level. Drainage area 232 mi <sup>2</sup> .	1987-	05-14-02	15.43	6,390	07-07-1993	21.88	19,700
	-							
06903190 Rock Branch	Lat 39°32′10″, long 93°27′32″, in SE 1/4 sec.34, T.55 N.,	1997-	05-11-02	13.42	+	11-02-1998	14.53	+
near Carroll-	R.23 W., Hydrologic Unit		Record:					
ton, Mo.	10280103, Carroll County, on		04-15-97	12.36	+			
	downstream side of bridge on State Highway WW, 12 miles		03-17-98	10.98	+			
	north of Carrollton. Drain-		11-02-98	14.53	+			
	age area $4.45~\mathrm{mi}^2$ , slope $30.6~\mathrm{ft/mi}$ .		2000 06-07-01	<6.63 11.81	+			
		Oh a sai b	Pi P	:_				
06904600	Lat 40°20'34", long 92°57'18",	1997-	on River Bas	11.72	1,960 <sup>a</sup>	06-06-2001	12.13	+
Spring Creek	in SE 1/4 sec.18, T.64 N.,	1997-	05-20-02	11.72	1,900	06-06-2001	12.13	Τ.
near Milan,	R.18 W., Hydrologic Unit		Record:					
Mo.	10280202, Sullivan County, on downstream side of bridge		1997	<7.40	+			
	on State Highway 129, 16		06-19-98 10-04-98	8.50 11.25	+			
	miles northeast of Milan or		2000	<7.38	+			
	about 5.5 miles north of		06-06-01	12.13	+			
	Green City. Drainage area 13.7 mi², slope 17.8 ft/mi.							
06904950	Lat 40°06'24", long 92°45'23",	1997-	05-12-02	22.14	14,000ª	05-12-2002	22.14	14,000ª
Walnut Creek	in NW 1/4 sec.12, T.61 N.,							
near Novinger,	R.17 W., Hydrologic Unit		Record:					
Mo.	10280202, Adair County, on downstream side of bridge on		05-01-97	9.30	648			
	State Highways 11 and 149,		07-26-98 10-06-98	19.86 13.28	5,650			
	11 miles south of Novinger.		2000	<8.97	1,880			
	Drainage area 13.5 mi², slope 14.1 ft/mi.		07-25-01	14.61	2,390			
		T.amin	e River Basi:	n				
06906715	Lat 38°30'37", long 93°08'25",	1997-	2002	<5.51	+	04-13-2001	15.08	+
Lake Creek near Cole Camp, Mo.			Record:					
	10300103, Benton County, on		1997	<5.51	+ ,			
	downstream side of bridge on State Highway JJ, 6 miles		07-26-98	11.53	5,210 <sup>b</sup>			
	northeast of Cole Camp.		05-05-99	9.03	2,490			
	Drainage area 12.2 mi <sup>2</sup> ,		2000 04-13-01	<5.51 15.08	+			
	slope 35.3 ft/mi.		01 15 01		•			

Maximum discharge at crest-stage partial-record stations--continued

		Period .	Water ye	ear 2002 m	aximum	Period of	record ma	aximum
Station number and name	Location and basin characteristics	of record	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)
		Lamine Riv	ver Basin-con	tinued				
06907710	Lat 38°50'40", long 93°32'50",	1997-	05-12-02	14.50	+	07-30-1998	15.66	+
Little Walnut Creek near	in SW 1/4 sec.22, T.47 N., R.24 W., Hydrologic Unit		D					
Knob Noster,	10300104, Johnson County, on		Record: 04-13-97	8.76	+			
Mo.	downstream side of bridge on		07-30-98	15.66	+			
	State Highway 23, 5 miles		10-06-98	14.11	+			
	north of Knob Noster.		05-27-00	14.29	+			
	Drainage area 8.20 mi², slope 23.3 ft/mi.		03-15-01	15.11	+			
06908495	Lat 39°06'12", long 93°03'21",	1997-	05-12-02	14.24	+	06-08-2001	14.24	+
Camp Creek near Marshall, Mo.	in NW 1/4 sec.24, T.50 N., R.20 W., Hydrologic Unit		Record:			05-12-2002		
narbnarr, no.	10300104, Saline County, on		04-14-97	10.60	1,100			
	downstream side of bridge on		07-30-98	13.39	2,650 <sup>b</sup>			
	State Highway 41, 7 miles		01-31-99	11.94	1,730 <sup>b</sup>			
	east of Marshall. Drainage area 10.8 mi <sup>2</sup> , slope 16.9		2000	<7.09	+			
	ft/mi.		06-08-01	14.24	+			
		Bonne Fe	emme Creek Ba	sin				
06909220	Lat 39°15'54", long 92°39'51",	1997-	05-12-02	13.36	+	07-30-1998	14.03	+
Ganaway Creek near Fayette,	in NW 1/4 sec.36, T.52 N., R.16 W., Hydrologic Unit	200.	Record:	13.30	·	0. 30 1330	11.03	·
Mo.	10300102, Howard County, on		04-11-97	10.68	+			
	downstream side of culvert		07-30-98	14.03	+			
	on State Highway U, 11 miles		07-01-99	13.67	+			
	north of Fayette or 2.5		06-21-00	11.69	+			
	miles east of Armstrong. Drainage area 4.55 mi <sup>2</sup> , slope 57.9 ft/mi.		06-08-01	13.24	+			
		Monite	au Creek Bas	in				
06910265	Lat 38°43′57″, long 92°38′17″,	1997-	08-22-02	11.01	4,800	07-30-1998	15.60	+
Moniteau Creek near Califor-	in E 1/2 sec.23, T.46 N., R.16 W., Hydrologic Unit		Record:					
nia, Mo.	10300102, Cooper County, on		05-27-97	10.08	3,860			
	downstream side of bridge on		07-30-98	15.60	+			
	State Highway O, 9 miles northwest of California.		10-20-98	15.57	+			
	Drainage area 67.6 mi <sup>2</sup> ,		03-28-00	9.12	3,010			
	slope 16.0 ft/mi.		06-08-01	14.49	+			
		Osage	e River Basin	ı				
06918270 Clear Creek	Lat 37°41'20", long 94°13'35", in SW 1/4 sec.16, T.34 N.,	1997-	05-08-02	13.65	1,630	05-05-1999	16.29	+
near Nevada,	R.30 W., Hydrologic Unit		Record:					
Mo.	10290105, Vernon County, on downstream side of bridge on		02-21-97	13.91	1,870			
	State Highway DD, 16 miles		03-20-98 05-05-99	12.49 16.29	920			
	southeast of Nevada. Drain-		05-05-99	6.52	220			
	age area $23.2 \text{ mi}^2$ , slope $13.5 \text{ ft/mi}$ .		02-28-01	14.38	2,320			
06919004	Lat 37°35′00″, long 93°28′02″,	1997-	05-17-02	8.26	1,800ª	05-05-1999	8.35	1,850 <sup>b</sup>
Bear Creek near Bolivar, Mo.	in NW 1/4 sec.21, T.33 N., R.23 W., Hydrologic Unit	1991-	Record:	0.20	±,000	03-03-1333	0.33	±,000
	10290106, Polk County, on		08-19-97	6.54	828			
	downstream side of bridge on		03-19-98	6.00	622			
	State Highway T, 3.5 miles southwest of Bolivar.		05-05-99	8.35	1,850 <sup>b</sup>			
	Drainage area 7.45 mi <sup>2</sup> ,		07-12-00	4.88	313			
	slope 26.0 ft/mi.		07-05-01	6.83	957			

Maximum discharge at crest-stage partial-record stations--continued

		Period -	Water ye	ear 2002 m	maximum	Period of	record m	aximum
Station number and name	Location and basin characteristics	of record	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)
		Osage Rive	er Basin-cont	inued				
06921712 Clear Creek	Lat 38°37′35″, long 94°11′27″, in NW 1/4 sec.12, T.44 N.,	1997-	05-09-02	14.85	+	05-09-2002	14.85	+
near Harrison-	R.30 W., Hydrologic Unit		Record:					
ville, Mo.	10290108, Cass County, on downstream side of bridge on		05-27-97	14.18	+			
	State Highway Z, 9 miles		09-16-98	12.84	+			
	east of Harrisonville,		05-04-99	14.71	+			
	Drainage area 11.4 mi²,		07-12-00 06-07-01	13.44 12.46	+			
	slope 14.8 ft/mi.		00 07 01	12.10	·			
06925432	Lat 37°59′52″, long 92°31′39″,	1997-	04-19-02	7.00	1,700ª	04-19-2002	7.00	1,700ª
Barnett Hollow	in SW 1/4 sec.25, T.38 N.,				,			,
near Camden-	R.15 W., Hydrologic Unit		Record:					
ton, Mo.	10290109, Camden County, on		1997	<4.91	+			
	downstream side of bridge on		07-27-98	5.19	+			
	State Highway A, 14 miles east of Camdenton or 5 miles		1999-2001	<4.91	+			
	northeast of Montreal. Drainage area 6.98 mi <sup>2</sup> , slope 55.5 ft/mi.							
		Gascona	ade River Bas	in				
06927746	Lat 37°33'13", long 92°40'52",	1997-	05-12-02	3.88	187	07-28-2001	5.49	1,430 <sup>b</sup>
Selvage Hollow	in NW 1/4 sec.27, T.33 N.,							
near Lebanon,	R.16 W., Hydrologic Unit		Record:		2			
Mo.	10290201, Laclede County, on downstream side of culvert		11-22-96	5.05	870 <sup>a</sup>			
	on State Highway C, 5.5		03-21-98	3.83	174			
	miles east of Phillipsburg		04-16-99	3.76	156			
	or 9 miles south of Lebanon.		2000 07-28-01	<2.04 5.49	1,430 <sup>b</sup>			
	Drainage area 9.72 mi <sup>2</sup> slope		07-28-01	5.49	1,430			
	40.2 ft/mi.							
06928850	Lat 37°11'47", long 92°05'43",	1997-	05-20-02	9.42	4,600ª	05-20-2002	9.42	4,600 <sup>a</sup>
Hamilton Creek	in N 1/2 sec.13, T.29 N.,							
near Cabool,	R.11 W., Hydrologic Unit		Record:					
Mo.	10290202, Texas County, on		02-27-97	5.21	1,070			
	downstream side of bridge on State Highway PP, 5 miles		1998	<4.71	+			
	north of Cabool. Drainage		02-07-99	8.51	3,300			
	area 9.29 mi <sup>2</sup> , slope 42.9		2000	<4.71	+			
	ft/mi.		02-26-01	6.61	1,890			
		Loutr	e River Basin	ı				
06934680	Lat 38°46'29", long 91°33'53",	1997-	12-18-01	7.56	+	12-18-2001	7.56	+
Dry Fork near	in SW 1/4 sec.2, T.46 N.,							
Hermann, Mo.	R.6 W., Hydrologic Unit		Record:					
	10300200, Montgomery County, on downstream side of bridge		06-23-97	7.13	+			
	on State Highway P, 11 miles		03-22-98	5.48	+			
	northwest of Hermann or 20		02-08-99 06-12-00	6.49 6.61	+			
	miles south of Montgomery		2001	<3.59	+			
	City. Drainage area 7.66 mi <sup>2</sup> , slope 68.7 ft/mi.		2001	<3.59	+			
		Roeuf	E Creek Basin					
06935175	Lat 38°27'44", long 91°18'29",	1997-	04-20-02	11.07	1,360	05-07-2000	17.67	10,600ª
Cedar Fork near	in NW 1/4 sec.19, T.43 N.,							-
Gerald, Mo.	R.3 W., Hydrologic Unit		Record:					
GCIAIG, NO.	10300200, Franklin County,		06-22-97	8.64	634			
Gerard, Mo.	4 13 63 13							
Gerard, Mo.	on downstream side of bridge		07-26-98	10.44	1,160			
Gerara, Mo.	on State Highway ZZ, 4.5		11-02-98	11.52	1,530			
Gerara, Mo.								

Maximum discharge at crest-stage partial-record stations--continued

		Period	Water ye	ear 2002 m	aximum	Period of	record m	naximum
Station number and name	Location and basin characteristics	of record	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)
07015757 Upper Peavine Creek near Belle, Mo.	Lat 38°11'54", long 91°42'03", in SE 1/4 sec.16, T.40 N., R.7 W., Hydrologic Unit 07140103, Maries County, on downstream side of bridge on State Highway C, 7 miles	1997-	05-09-02  Record: 06-22-97 06-04-98 1999-2000	9.21 12.19 10.04 <8.61	696 <sup>b</sup> + 1,050 <sup>b</sup> +	06-22-1997	12.19	+
	south of Belle. Drainage area 6.79 mi <sup>2</sup> , slope 32.0 ft/mi.		02-25-01	9.33	742 <sup>b</sup>			
07017733 Bates Creek at Potosi, Mo.	Lat 37°56'35", long 90°48'23", near sec.9, T.37 N., R.2 E., Hydrologic Unit 07140104,	1997-	05-20-02 Record:	7.47	1,200 <sup>a</sup>	11-06-1997	8.64	+
	Washington County, on down-		08-20-97	8.44	1,880 <sup>b</sup>			
	stream side of bridge on		11-06-97	8.64	2,050 <sup>b</sup>			
	State Highway 8, 0.5 mile		04-03-99	8.60	2,020 <sup>b</sup>			
	<pre>west of Potosi. Drainage area 14.1 mi<sup>2</sup>, slope 39.8 ft/mi.</pre>		2000 03-15-01	<5.61 7.19	1,030			
		adwater Di	version Chann	el Basin				
07020895	Lat 37°34'40", long 90°09'50",	1997-	05-20-02	12.30	5,810	04-03-1999	15.58	11,500 <sup>a</sup>
Castor River	in S 1/2 sec.4, T.33 N., R.8	100,		12.50	37010	01 03 1333	13.30	11,500
near Freder-	E., Hydrologic Unit		Record:					
icktown, Mo.	07140107, Madison County, on downstream side of bridge on		05-31-97	10.20	3,780			
	State Highway J, 7 miles		03-20-98 04-03-99	10.42	3,960			
	east of Fredericktown.		02-26-00	15.58 6.30	11,500 <sup>a</sup> 1,100			
	Drainage area 33.5 mi², slope 28.6 ft/mi.		02-25-01	8.30	2,330			
07020965 Bear Creek near	Lat 37°13'30", long 90°19"31", in SW 1/4 sec.31, T.30 N.,	1997-	05-19-02	13.46	8,890 <sup>a</sup>	05-19-2002	13.46	8,890 <sup>a</sup>
Patterson, Mo.	R.7 E., Hydrologic Unit		Record:					
	07140107, Wayne County, on downstream side of bridge on		05-31-97	8.91	2,230			
	State Highway 34, 10.5 miles		04-18-98	8.19	1,840			
	east of Patterson or 20		04-03-99 06-18-00	9.00 11.58	2,280 4,390			
	miles west of Marble Hill. Drainage area 13.1 mi², slope 33.5 ft/mi.		2001	<6.30	+			
		White	e River Basin	ı				
07050545 North Carolina	Lat 37°14′53″, long 93°00′30″, in SE 1/4 sec.4, T.29 N.,	1997-	05-20-02	5.51	+	05-20-2002	5.51	+
Creek near	R.19 W., Hydrologic Unit		Record:					
Marshfield,	11010002, Webster County, on		11-07-96	4.35	1,000ª			
Mo.	downstream side of culvert on State Highway B, 8 miles		03-20-98	3.23	142			
	southwest of Marshfield.		05-05-99	5.41	+			
	Drainage area 6.30 mi <sup>2</sup> ,		2000 02-24-01	<2.39 3.33	+ 174			
	slope 57.0 ft/mi.		02-24-01	3.33	1/4			
07052370 Dry Crane Creek	Lat 36°56′18″, long 93°26′05″, in SE 1/4 sec.22, T.26 N.,	1997-	2002	<8.30	+	03-20-1998	8.79	+
near Crane,	R.23 W., Hydrologic Unit		Record:					
Mo.	11010002, Stone County, on		1997	<8.30	+			
	downstream side of bridge on State Highway A, 10 miles east of Crane. Drainage area 10.9 mi <sup>2</sup> , slope 29.6		03-20-98 1999-2002	8.79 <8.30	+			
	ft/mi.							

Maximum discharge at crest-stage partial-record stations--continued

		Period	Water ye	ear 2002 n	naximum	Period of	record m	aximum
Station number and name	Location and basin characteristics	of record	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Dis- charge (ft <sup>3</sup> /s)
07054047 Little Beaver	Lat 36°53'55", long 92°52'04", in SW 1/4 sec.36, T.26 N.,	1997-	05-19-02	10.72	3,380 <sup>b</sup>	05-19-2002	10.72	3,380 <sup>b</sup>
Creek near	R.18 W., Hydrologic Unit		Record:					
Ava, Mo.	11010003, Douglas County, on		1997-1998	<7.17	+ ,			
	downstream side of bridge on		05-05-99	9.99	2,640 <sup>b</sup>			
	State Highway T, 13 miles southwest of Ava. Drainage area 25.5 mi <sup>2</sup> , slope 47.4 ft/mi.		2000-2001	<7.14	+			
07061260 East Fork Black	Lat 37°36'14", long 90°47'19", in SE 1/4 sec.35, T.34 N.,	1997-	05-19-02	15.41	9,900 <sup>a</sup>	05-19-2002	15.41	9,900 <sup>a</sup>
River near	R.2 E., Hydrologic Unit		Record:					
Ironton, Mo.	11010007, Iron County, on		05-31-97	10.02	2,260			
	downstream side of bridge on		03-19-98	7.62	603			
	State Highway N, 10 miles west of Ironton at Iron/Rey-		02-07-99	10.42	2,640			
	nolds County line. Drainage		2000	<7.04	+			
	area 16.2 mi <sup>2</sup> , slope 60.7 ft/mi.		07-29-01	7.78	680			
07063470 Tenmile Creek	Lat 36°46'59", long 90°33'35", in SE 1/4 sec.30, T.25 N.,	1997-	05-19-02	13.81	11,700 <sup>b</sup>	05-19-2002	13.81	11,700 <sup>b</sup>
near Poplar	R.5 E., Hydrologic Unit		Record:					
Bluff, Mo.	11010007, Butler County, on		04-06-97	11.82	8,130 <sup>b</sup>			
	downstream side of bridge on		07-31-98	7.10	2,780			
	State Highway TT, 8 miles west of Poplar Bluff.		04-04-99	8.79	4,440			
	Drainage area 59.0 mi <sup>2</sup> ,		06-18-00	9.26	4,950			
	slope 17.0 ft/mi.		07-29-01	5.56	1,500			
07071750 Louse Creek	Lat 36°34'37", long 91°19'06", near center sec.8, T.22 N.,	1997-	01-30-02	5.74	364 <sup>b</sup>	04-05-1997	7.20	+
near Alton,	R.3 W., Hydrologic Unit		Record:					
Mo.	11010011, Oregon County, on		04-05-97	7.20	+			
<del></del>	downstream side of bridge on		1998-1999	<4.44	+			
	State Highway E, 10 miles		06-18-00	7.00	+			
	southeast of Alton. Drain-		06-14-01	5.48	282			
	age area $5.69~\mathrm{mi}^2$ , slope $48.1~\mathrm{ft/mi}$ .		30 14 01	J. 40	202			

<sup>+</sup> Not determined.

a Discharge determined by indirect method.

b Rating extrapolated beyond indirect peak discharge.

c Gage height based on poor field estimate.

Water-quality partial-record stations are sites where chemical-quality, biological, and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected bi-annually rather than quarterly.

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS- SOLVED (mg/L)	OXYGEN, DIS- SOLVED (per- cent satur- ation) (00301)	pH WATER WHOLE FIELD (stand- ard units) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	TEMPER- ATURE WATER (deg C) (00010)	ANC WATER UNFLTRD FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)	CaCO <sub>3</sub> )	ANC BICAR- BONATE IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	ANC CAR- BONATE IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)
				070	64400 M	ONTAUK SP	RINGS AT	MONTAUK					
OCT 03	1600	ENVIRONMENTAL	46	8.4	85	7.4	314	13.9	154	155	189	0	<.04
MAY 30	1700	ENVIRONMENTAL	155	9.2	98	7.2	194	16.1	86	87	107	0	<.04
				07064440	CURRENT	RIVER BE	LOW MONTA	UK STATE	PARK				
OCT 03	1430	ENVIRONMENTAL	48	12.3	130	8.0	311	16.5	152	154	188	0	<.04
MAY 30 30	1515 1545	BLANK ENVIRONMENTAL	189	9.8	 106	7.2	 194	 17.4	 79	 78	 96	 0	<.04 E.02
				07	064530	WELCH SPR	ING NEAR	AKERS					
OCT 03	1130	ENVIRONMENTAL	90	8.6	87	7.4	343	14.0	175	177	216	0	<.04
MAY 30	1330	ENVIRONMENTAL		9.3	91	6.9	210	13.2	94	94	115	0	<.04
				0706455	5 PULLT	ITE SPRIN	G NEAR RO	UND SPRIN	G				
OCT													
03 MAY	0900	ENVIRONMENTAL		8.3	83	7.7	321	13.7	161	162	198	0	<.04
30	1015	ENVIRONMENTAL	150	9.6	96	6.9	162	13.1	73	76	93	0	<.04
				0706	5000 RO	UND SPRIN	G AT ROUN	D SPRING					
OCT 02 MAY	1415	ENVIRONMENTAL	16	8.6	87	7.5	343	14.7	179	181	220	0	<.04
29	1715	ENVIRONMENTAL	153	9.1	91	7.1	217	13.8	82	82	100	0	<.04
				0	7065500	ALLEY SP	RING AT A	LLEY					
OCT 02 02	1630 1631	ENVIRONMENTAL REPLICATE	70 	10.7	107	7.5	320	14.3	163 	164	200	0	<.04 <.04
MAY 29	0810	ENVIRONMENTAL	311	9.4	93	6.9	175	13.4	54	53	65	0	<.04
				070665	10 CURR	ENT RIVER	ABOVE PO	WDER MILL					
OCT 02	1030	ENVIRONMENTAL	411	8.8	92	8.0	345	16.6	182	185	226	0	<.04
MAY 29	1345	ENVIRONMENTAL		9.9	105	7.5	233	16.9	110	110	134	0	<.04
				070	66550 B	LUE SPRIN	G NEAR EM	INENCE					
OCT													
02 MAY	0845	ENVIRONMENTAL		8.3	83	7.4	319	14.0	154	154	188	0	<.04
28	1500	ENVIRONMENTAL	239	9.1	89	6.9	159	13.7	59	60	73	0	<.04
ogm				07067800	CURREN	T RIVER B	ELOW HAWE	S CAMPGRO	UND				
OCT 01 MAY	1150	ENVIRONMENTAL	820	11.2	117	7.6	342	16.9	171	171	209	0	<.04
29 29	1115 1116	ENVIRONMENTAL REPLICATE	4800	9.3	98	7.6	222	16.8	114	116	141	0	<.04 <.04

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI- FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	LEAD, TOTAL RECOV- ERABLE (µg/L as Pb) (01051)	SILVER, TOTAL RECOV- ERABLE (µg/L As Ag) (01077)	ZINC, TOTAL RECOV- ERABLE (µg/L as Zn) (01092)
				C	7064400	MONTAUK S	PRINGS AT	MONTAUK					
OCT 03 MAY	<.10	.61	<.008	<.06	<.02	<.06	K8	K12	48	<.1	<1	<.3	<20
30	E.06	.44	<.008	<.06	<.02	<.06	K8	K8	27	<.1	<1	<.3	E20
				0706444	0 CURREN	TT RIVER B	BELOW MONT	AUK STATE	PARK				
OCT													
03 MAY	.11	. 47	E.007	<.06	<.02	E.03	К9	21	K17	<.1	<1	<.3	<20
30 30	<.10 .13	<.05 .43	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	 K3	 21	 22	<.1 <.1	<1 <1	<.3 <.3	E20 E20
				C	7064530	WELCH SPR	ING NEAR	AKERS MO					
OCT													
03 MAY	<.10	.57	<.008	<.06	<.02	<.06	K2	К3	К3	<.1	<1	<.3	<20
30	E.08	.82	<.008	<.06	<.02	<.06	21	K12	48	<.1	<1	<.3	<20
				07064	1555 PULL	TITE SPRI	NG NEAR R	OUND SPRI	NG				
OCT	1.0	45	000	0.5	20	0.5			20			2	20
03 MAY	<.10	. 45	<.008	<.06	<.02	<.06	К9	K12	38	<.1	<1	<.3	<20
30	E.09	.33	<.008	<.06	E.01	<.06	K14	K14	26	<.1	<1	<.3	<20
				070	)65000 R	OUND SPRI	NG AT ROU	ND SPRING	<del>}</del>				
OCT 02	<.10	. 29	<.008	<.06	<.02	<.06	К9	K10	K13	<.1	<1	<.3	<20
MAY 29	E.07	. 43	<.008	<.06	<.02	<.06	27	23	36	<.1	<1	<.3	<20
	_,_,	,				ALLEY S					_		
OCT					07003300	ALLEI S	FRING AI	ALDET					
02 02 MAY	<.10 <.10	.50 .490	E.006 .020	<.06 <.060	<.02 <.020	<.06 <.060	K7 	K7 	K15 	<.1 <.1	<1 <1	<.3 <.3	<20 <20
29	E.07	.61	<.008	<.06	E.01	<.06	31	K71	62	<.1	<1	<.3	E20
				0706	6510 CUR	RENT RIVE	R ABOVE P	OWDER MII	ıL				
OCT													
02 MAY	<.10	.19	<.008	<.06	<.02	<.06	K4	K11	К7	<.1	<1	<.3	<20
29	E.10	.36	<.008	<.06	<.02	<.06	K8	K15	20	<.1	<1	<.3	60
				C	7066550	BLUE SPRI	NG NEAR E	MINENCE					
OCT 02 MAY	<.10	.32	<.008	<.06	<.02	<.06	<1	К3	К3	<.1	<1	<.3	<20
28	E.05	.60	<.008	<.06	<.02	<.06	К6	К9	К9	<.1	<1	<.3	E10
				070678	300 CURRE	NT RIVER	BELOW HAW	ES CAMPGE	OUND				
OCT							_			_	_	_	
01 MAY	<.10	.14	<.008	<.06	<.02	<.06	<1	К3	К3	<.1	<1	<.3	<20
29 29	E.06 E.10	.36 .36	<.008 <.008	<.06 <.06	<.02 <.02	<.06 <.06	K16 67	59 43	150 125	<.1 <.1	<1 <1	<.3 <.3	<20 E20

K--Results based on colony count outside the acceptable range (non-ideal colony count). E--Laboratory estimated value. <--Numeric result is less than the value shown.

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### **CONVERSION FACTORS AND VERTICAL DATUM**

Multiply	Ву	To obtain
	Length	
inch (in.)	$2.54 \times 10^{1} \\ 2.54 \times 10^{-2}$	millimeter
foot (ft)	$2.54 \times 10^{-2}$ $3.048 \times 10^{-1}$	meter
foot (ft) mile (mi)	$1.609 \times 10^{0}$	meter kilometer
nine (nii)	1.009X10	KHOIHETEI
	Area	
acre	$4.047 \times 10^3$	square meter
	$4.047 \times 10^{-1}$	square hectometer
	$4.047 \times 10^{-3}$	square kilometer
square mile (mi <sup>2</sup> )	$2.590 \times 10^{0}$	square kilometer
	Volume	
	$3.785 \times 10^{0}$	liter
gallon (gal)	$3.785 \times 10^{0}$	cubic decimeter
	$3.785 \times 10^{-3}$	cubic meter
million gallons (Mgal)	$3.785 \times 10^3$	cubic meter
mimon ganons (wgar)	$3.785 \times 10^{-3}$	cubic hectometer
cubic foot (ft <sup>3</sup> )	$2.832 \times 10^{1}$	cubic decimeter
cubic foot (it )	$2.832 \times 10^{-2}$	cubic meter
cubic-foot-per-second day [(ft <sup>3</sup> /s) d]	$2.447 \times 10^3$	cubic meter
cuesto recorde dal [(re /b) d]	$2.447 \times 10^{-3}$	cubic hectometer
acre-foot (acre-ft)	$1.233 \times 10^3$	cubic meter
,,	$1.233 \times 10^{-3}$	cubic hectometer
	$1.233 \times 10^{-6}$	cubic kilometer
	Flow	
	-	
cubic foot per second (ft <sup>3</sup> /s)	$2.832 \times 10^{1}$	liter per second
	$2.832 \times 10^{1}$	cubic decimeter per second
	$2.832 \times 10^{-2}$ $6.309 \times 10^{-2}$	cubic meter per second
gallon per minute (gal/min)	$6.309 \times 10^{-2}$	liter per second
	$6.309 \times 10^{-5}$	cubic decimeter per second
million gallons per day (Mgal/d)	$4.381 \times 10^{1}$	cubic meter per second cubic decimeter per second
million ganons per day (wigai/d)	$4.381 \times 10^{-2}$	cubic meter per second
	4.301110	cubic illeter per second
	Mass	
ton (short)	$9.072 \times 10^{-1}$	megagram or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheight (°F) as follows:  $^oF=(1.8x^oC)+32$